

SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is 80%.

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 26, 2005, 14:59:18 ; Search time 3132 Seconds
(without alignments)
230.914 Million cell updates/sec

Title: US-10-619-906-5
Perfect score: 19
Sequence: 1 aattattgattctgtaggt 19
Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0
Searched: 34239544 seqs, 19032134700 residues
Word size : 0

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Listing first 45 summaries

Database : EST:*
1: gb_est1:*
2: gb_est2:*
3: gb_htc:*
4: gb_est3:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_gss1:*
9: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	100.0	208	2	BF327490 QV4-BN009
2	19	100.0	255	2	BF088326 CM1-HT087
3	19	100.0	255	2	BF155525 CM1-HT087
C 4	19	100.0	385	2	AW996471 QV3-BN004
C 5	19	100.0	442	2	AW996697 QV3-BN004
C 6	19	100.0	481	5	BQ312455 MR0-BN011
C 7	19	100.0	568	2	BE440047 HTM1-818F
C 8	19	100.0	583	5	BP352329 BP352329
C 9	19	100.0	664	2	BF327500 QV4-BN009
C 10	19	100.0	714	1	AV716402 AV716402
C 11	19	100.0	930	5	BX377010 BX377010
C 12	19	100.0	1784	3	CR603756 full-length
C 13	17	89.5	495	8	AQ278111 CITBI-E1-
C 14	17	89.5	528	8	BH886093 LB00584a.
C 15	17	89.5	631	8	BH888327 LB01983a.
C 16	17	89.5	645	8	BH885870 LB00450a.
C 17	17	89.5	808	7	CR575999 CR575999
C 18	17	89.5	885	5	BX710423 BX710423
19	16	84.2	251	6	CA049038 ssalkspa0
20	16	84.2	273	2	BB127347 BB127347
21	16	84.2	298	1	AV296455 AV296455
C 22	16	84.2	312	2	BB040926 BB040926
C 23	16	84.2	375	7	CV317979 CM2-GN005
24	16	84.2	410	4	BG360551 RTI00001

25	16	84.2	457	1	AI760729	AI760729 wi08f05.x
C 26	16	84.2	506	6	CA061810	CA061810 ssalrqp00
C 27	16	84.2	562	7	CO228348	CO228348 WS0014.B2
C 28	16	84.2	566	7	CK881762	CK881762 SGP142112
C 29	16	84.2	581	2	AW912973	AW912973 uf47a10.Y
30	16	84.2	581	4	BI946345	BI946345 01088 lea
31	16	84.2	583	9	CR315576	CR315576 Medicago
C 32	16	84.2	591	6	CA043357	CA043357 ssalplnb5
33	16	84.2	611	6	CD334984	CD334984 StrPus36.
34	16	84.2	622	6	CA353561	CA353561 625083 NC
C 35	16	84.2	634	7	CO217921	CO217921 WS0101.B2
36	16	84.2	642	6	CB502289	CB502289 ssalplnb5
37	16	84.2	647	9	AG151770	AG151770 Pan trogl
38	16	84.2	648	6	CA377750	CA377750 656393 NC
39	16	84.2	651	5	BX077071	BX077071 BX077071
C 40	16	84.2	651	9	CE160496	CE160496 tigr-gss-
C 41	16	84.2	655	6	CB497718	CB497718 omykrbna5
C 42	16	84.2	669	9	CB545000	CB545000 tigr-gss-
C 43	16	84.2	683	7	CO204386	CO204386 WS0064.B2
C 44	16	84.2	686	8	BH973406	BH973406 odj04e11.
C 45	16	84.2	687	7	CO240857	CO240857 WS0078.B2

ALIGNMENTS

RESULT 1
BF327490
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT

BF327490 208 bp mRNA linear EST 22-NOV-2000
QV4-BN0090-210400-182-all BN0090 Homo sapiens cDNA, mRNA sequence.
BF327490 GI:11298238
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 208)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
10737800
Contact: Simpson A.J.G.
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Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=QV4&t2=QV4-BN0090-
210400-182-all&t3=2000-04-21&t4=1)
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High quality sequence stop: 4.
Location/Qualifiers
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/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BN0090"
/note="Organ: breast_normal; Vector: puc18; Site_1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application

No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

ORIGIN

Query Match 100.0%; Score 19; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19

Db 157 AATTATTGATTCTGTAGGT 175

RESULT 2

BF088326
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 255)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
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Brazil
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Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM1-HT0876-060
900-392-h07&t3=2000-09-06&t4=1)
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High quality sequence stop: 255.
Location/Qualifiers
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/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="HT0876"
/note="Organ: head neck; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

COMMENT

FEATURES

source

ORIGIN

Query Match 100.0%; Score 19; DB 2; Length 255;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19

Db 46 AATTATTGATTCTGTAGGT 64

RESULT 3

BF155525
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 255)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
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Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
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Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM1-HT0876-260
900-392-h07&t3=2000-09-26&t4=1)
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Location/Qualifiers
1. .255
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/mol_type="mRNA"
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Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

COMMENT

FEATURES

source

ORIGIN

Query Match 100.0%; Score 19; DB 2; Length 255;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19

Db 46 AATTATTGATTCTGTAGGT 64

RESULT 4

AW996471/c
LOCUS
DEFINITION
ACCESSION
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
385 bp
mRNA
linear
EST 05-JUN-2000
QV3-BN0046-150300-122-c09
BN0046 Homo sapiens CDNA, mRNA sequence.
AW996471

VERSION AW996471.1 GI:8256705
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 385)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
10737800
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Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=QV3-BN0046-150
300-122-c09&t3=2000-03-15&t4=1)
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High quality sequence start: 12
High quality sequence stop: 385.
High quality sequence stop: 385.
Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="mrna"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BN0046"
/note="Organ: breast normal; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
ORIGIN
Query Match 100.0%; Score 19; DB 2; Length 385;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCGTAGGT 19
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Db 303 AATTATTGATTCGTAGGT 285
RESULT 5
AW996697/c
LOCUS AW996697 442 bp mRNA linear EST 05-JUN-2000
DEFINITION QV3-BN0046-150400-151-h01 BN0046 Homo sapiens cDNA, mRNA sequence.
ACCESSION AW996697
VERSION AW996697.1 GI:8256931
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 442)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,

Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
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Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
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Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=QV3-BN0046-150
400-151-h01&t3=2000-04-15&t4=1)
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High quality sequence stop: 442.
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Location/Qualifiers
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/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BN0046"
/note="Organ: breast normal; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
ORIGIN
Query Match 100.0%; Score 19; DB 2; Length 442;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCGTAGGT 19
|||||
Db 244 AATTATTGATTCGTAGGT 226
RESULT 6
BQ312455/c
LOCUS BQ312455 481 bp mRNA linear EST 16-MAY-2002
DEFINITION MR0-BN0115-041000-014-f08 BN0115 Homo sapiens cDNA, mRNA sequence.
ACCESSION BQ312455
VERSION BQ312455.1 GI:20868627
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 481)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
10737800
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?t1=MR0&t2=MR0-BN0115-041000-014-f08&t3=2000-10-04&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 18
High quality sequence stop: 47.

FEATURES
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/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BN0115"
/note="Organ: breast normal; Vector: puc18; Site_1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

ORIGIN
Query Match 100.0%; Score 19; DB 5; Length 481;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
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Db 382 AATTATTGATTCTGTAGGT 364

RESULT 7
BE440047/c
LOCUS BE440047 568 bp mRNA linear EST 25-JUL-2000
DEFINITION HTM1-818F HTM1 Homo sapiens cDNA, mRNA sequence.
ACCESSION BE440047
VERSION BE440047.1 GI:9439531
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 568)
AUTHORS Gonzalez,P., Epstein,D.L. and Borras,T.
TITLE Characterization of gene expression in human trabecular meshwork using single-pass sequencing of 1060 clones
JOURNAL Invest. Ophthalmol. Vis. Sci. (2000) In press
COMMENT Contact: Pedro Gonzalez
Department of Ophthalmology
Duke University
Duke Eye Center, Erwin Rd, Box 3802, Durham, NC 27710-3802, USA
Tel: 919 681 4085
Fax: 919 684 8983
Email: pedro.gonzalez@duke.edu.

FEATURES
source
1. .568
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="Trabecular meshwork"
/clone_lib="HTM1"

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Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 408 AATTATTGATTCTGTAGGT 390

RESULT 8
BP352329/c
LOCUS BP352329 583 bp mRNA linear EST 17-SEP-2004
DEFINITION BP352329 Sugano cDNA library, squamous cell TE13 Homo sapiens cDNA clone T3R07476, mRNA sequence.

ACCESSION BP352329
VERSION BP352329.1 GI:52282315
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 583)
AUTHORS Suzuki,Y., Yamashita,R., Shiota,M., Sakakibara,Y., Chiba,J., Mizushima-Sugano,J., Nakai,K. and Sugano,S.
TITLE Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
JOURNAL Genome Res. 14 (9), 1711-1718 (2004)
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp.

FEATURES
source
1. .583
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="T3R07476"
/cell_type="squamous cell"
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/clone_lib="Sugano cDNA library, squamous cell TE13"
/note="well-differentiated squamous cell carcinoma"

ORIGIN
Query Match 100.0%; Score 19; DB 5; Length 583;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 405 AATTATTGATTCTGTAGGT 387

RESULT 9
BF327500/c
LOCUS BF327500 664 bp mRNA linear EST 22-NOV-2000
DEFINITION QV4-BN0090-220700-307-c09 BN0090 Homo sapiens cDNA, mRNA sequence.
ACCESSION BF327500
VERSION BF327500.1 GI:11298248
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 664)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE 20202663
PUBMED 10737800

COMMENT
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=QV4&t2=QV4-BN0090-
220700-307-c09&t3=2000-07-22&t4=1)
Seq primer: puc 18 forward.

FEATURES
source
1. .564
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BN0090"
/note="Organ: breast normal; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

ORIGIN
Query Match 100.0%; Score 19; DB 2; Length 664;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCCTGTAGGT 19
|||||
Db 423 AATTATTGATTCCTGTAGGT 405

RESULT 10
AV716402/c 714 bp mRNA linear EST 11-OCT-2000
LOCUS
DEFINITION
AV716402 DCB Homo sapiens cDNA clone DCBAQG01 5', mRNA sequence.
ACCESSION
AV716402.1 GI:10797919
VERSION
EST.
KEYWORDS
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 714)
Xu,X., Gu,J., Liu,F., Qu,J., Zhao,M., Li,Y., Huang,Q., Zhou,J.,
Song,H., Gu,Y., Yang,Y., Gao,G., Xiao,H., Li,N., Qian,B., Gao,X.,
Cheng,Z., Xu,S., Gu,W., Tu,Y., Jia,J., Fu,G., Ren,S., Zhong,M.,
Lu,G., Cheng,Z. and Han,Z.
Homo sapiens cDNA DCB clones
Unpublished (2000)
Contact: Zeguang Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86-21-50801919(ex.45)
Fax: 86-21-50801922
Email: hanzg@chgc.sh.cn
This clone is available at CHGC in Shanghai.

FEATURES
source
1. .714
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DCBAQG01"
/cell_type="dendritic cells"
/dev_stage="mature"
/lab_host="BM25.8"

ORIGIN
Query Match 100.0%; Score 19; DB 1; Length 714;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCCTGTAGGT 19
|||||
Db 352 AATTATTGATTCCTGTAGGT 334

RESULT 11
BX377010/c 930 bp mRNA linear EST 26-APR-2004
LOCUS
DEFINITION
BX377010 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
clone CSODI001YG13 5-PRIME, mRNA sequence.
ACCESSION
BX377010 GI:46570565
VERSION
EST.
KEYWORDS
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 930)
Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On May 8, 2003 this sequence version replaced gi:30442870.
COMMENT
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: segref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
5783.r

For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?s=CSODI001AD07QPl&c=5783.r.
FEATURES
Location/Qualifiers
source
1. .930
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI001YG13"
/cissue_type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Query Match 100.0%; Score 19; DB 5; Length 930;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCCTGTAGGT 19
|||||
Db 396 AATTATTGATTCCTGTAGGT 378

RESULT 12
CR603756/c 1784 bp mRNA linear HTC 21-JUL-2004
LOCUS
DEFINITION
CR603756 full-length cDNA clone CSODI002YD16 of Placenta Cot 25-normalized
of Homo sapiens (human).
ACCESSION
CR603756 GI:50484563
VERSION
CR603756.1
KEYWORDS
HTC; CNSLT_cDNA.

SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1784)
AUTHORS Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished
REMARK Contact : Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Faraday Avenue
2 (bases 1 to 1784)
REFERENCE
2 (bases 1 to 1784)
AUTHORS Genoscope.
TITLE Direct Submission
JOURNAL Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr
- Web : www.genoscope.cns.fr)
COMMENT 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
FEATURES
source Location/Qualifiers
1..1784
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI002YD16"
/tissue_type="Placenta Cot 25-normalized"
/plasmid="pCMVSPORT_6"
ORIGIN
Query Match 100.0%; Score 19; DB 3; Length 1784;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 394 AATTATTGATTCTGTAGGT 376
RESULT 13
AQ278111/c
LOCUS AQ278111.1 495 bp DNA linear GSS 22-NOV-1998
DEFINITION CITBI-E1-2523H15.TR CITBI-E1 Homo sapiens genomic clone 2523H15,
genomic survey sequence.
ACCESSION AQ278111
VERSION AQ278111.1 GI:3904154
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 495)
AUTHORS Adams,M.D., Rounsley,S.D., Zhao,S., Bass,S., Linher,K., Golden,K.,
Berry,K., Granger,D., Suh,E., Wible,C., Shizuya,H., Simon,M. and
Venter,J.C.
TITLE Use of a random human BAC End Sequence Database for Sequence-Ready
Map Building
JOURNAL Unpublished (1998)
COMMENT Other GSSs: CITBI-E1-2523H15.TF
Contact: Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: mdadams@tigr.org
Clones are available from Research Genetics (info@resgen.com). BAC
end search page:
http://www.tigr.org/tdb/hungen/bac_end_search/bac_end_search.html.
Seq primer: M13 Reverse
Class: BAC ends.

FEATURES
source Location/Qualifiers
1..495
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/clone="2523H15"
/sex="male"
/cell_type="sperm"
/clone_lib="CITBI-E1"
/note="Vector: pBelOBAC11; Site_1: EcoRI; Site_2: EcoRI;
CalTech Human BAC Library D"
ORIGIN
Query Match 89.5%; Score 17; DB 8; Length 495;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 TTATTGATTCTGTAGGT 19
|||||
Db 230 TTATTGATTCTGTAGGT 214
RESULT 14
BH886093/c
LOCUS BH886093 528 bp DNA linear GSS 07-AUG-2002
DEFINITION LB00584a.d.SP6.1 Leishmania major Friedlin BAC Library Leishmania
major genomic clone LB00584a, genomic survey sequence.
ACCESSION BH886093
VERSION BH886093.1 GI:22130488
KEYWORDS GSS.
SOURCE Leishmania major
ORGANISM Leishmania major
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Leishmania.
REFERENCE 1 (bases 1 to 528)
AUTHORS Myler,P.J., Vogt,C., Munden,H., Robertson,L., Sisk,E.,
Fazelinia,G., Aggarwal,G., Nelson,S., Seyler,A., Worthey,E.,
Stuart,K. and Ragland,M.
TITLE Leishmania major Friedlin BAC End Sequences
JOURNAL Unpublished (2002)
COMMENT Other GSSs: LB00584a.d.T7.1
Contact: Myler PJ
Seattle Biomedical Research Institute
4 Nickerson Street, Seatttle, WA 98109-1651, USA
Tel: 206 284-8846
Fax: 206 284-0313
Email: mylerpj@sbri.org
Seq primer: SP6
Class: BAC ends.
FEATURES
source Location/Qualifiers
1..528
/organism="Leishmania major"
/mol_type="genomic DNA"
/strain="Friedlin"
/db_xref="taxon:5664"
/clone="LB00584a"
/lab_host="E. coli GeneHogs + TrfA"
/clone_lib="Leishmania major Friedlin BAC Library"
/note="Vector: pCG270; Site_1: HindIII; Genomic DNA from
Leishmania major Friedlin in agarose blocks was partially
digested with HindIII, size selected, and ligated with
HindIII-digested pCG270 vector DNA. 10368 clones were
picked and arrayed in 384- and 96-well plates. Library
construction and arraying was carried out by ResGen
Corporation and clones and filters are available from
them"
ORIGIN
Query Match 89.5%; Score 17; DB 8; Length 528;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 TTATTGATTCTGTAGGT 19

Fazelinia,G., Aggarwal,G., Nelson,S., Seyler,A., Worthey,E., Stuart,K. and Ragland,M.
Leishmania major Friedlin BAC End Sequences
Unpublished (2002)
Other GSSs: LB00450a.d_SP6.1
Contact: Myler PJ
Seattle Biomedical Research Institute
4 Nickerson Street, Seattle, WA 98109-1651, USA
Tel: 206 284-8846
Fax: 206 284-0313
Email: mylerpj@sbri.org
Seq primer: T7
Class: BAC ends.

TITLE Location/Qualifiers
JOURNAL source

COMMENT /organism="Leishmania major"
/mol_type="genomic DNA"
/strain="Friedlin"
/db_xref="taxon:5664"
/clone="LB00450a"
/lab_host="E. coli GeneHogs + TrfA"
/clone_lib="Leishmania major Friedlin BAC Library"
/note="Vector: pCG270; Site_1: HindIII; Genomic DNA from Leishmania major Friedlin in agarose blocks was partially digested with HindIII, size selected, and ligated with HindIII-digested pCG270 vector DNA. 10368 clones were picked and arrayed in 384- and 96-well plates. Library construction and arraying was carried out by ResGen Corporation and clones and filters are available from them"

ORIGIN Query Match 89.5%; Score 17; DB 8; Length 645;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 3 TTATTGATTCGTAGGT 19
|||||
Db 256 TTATTGATTCGTAGGT 240

RESULT 17
CR575999/c LOCUS CR575999 XGC-tailbud-head Xenopus tropicalis cDNA clone THdA040j06 EST 21-JUL-2000
DEFINITION 5', mRNA sequence.
ACCESSION CR575999
VERSION CR575999.1 GI:50463425
KEYWORDS EST.
SOURCE Xenopus tropicalis (western clawed frog)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Xenopodinae; Xenopus; Silurana.
REFERENCE 1 (bases 1 to 808) Croning,M.D.R., Ashurst,J.L., Taylor,R., Garrett,N. and Rogers,J. Sanger Xenopus tropicalis EST project 2001 (2004) UNPUBLISHED (2004)
AUTHORS Sanger Xenopus tropicalis EST project 2001
TITLE TROPICALIS_SEQUENCE_ID: THdA040j06.plkasp6
JOURNAL This sequence is from a Xenopus Gene Collection (XGC) library constructed by Nigel Garrett.
COMMENT Seq primer: SP6.

FEATURES Location/Qualifiers
source 1..808
/organism="Xenopus tropicalis"
/mol_type="mRNA"
/db_xref="taxon:8364"
/clone="THdA040j06"

ORIGIN

Query Match 89.5%; Score 17; DB 7; Length 808;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ATTATTGATTCTGTAGG 18
|||||

Db 597 ATTATTGATTCTGTAGG 581

RESULT 18
BX710423/c

LOCUS
DEFINITION BX710423 XGC-tadpole Xenopus tropicalis cDNA clone TTPA003j14 5', mRNA linear EST 18-NOV-2003
mRNA sequence.

ACCESSION BX710423.1 GI:38382526

VERSION BX710423

KEYWORDS EST.

SOURCE Xenopus tropicalis (western clawed frog)

ORGANISM Xenopus tropicalis

REFERENCE 1 (bases 1 to 885)
AUTHORS Croning,M.D.R., Ashurst,J.L., Taylor,R., Zorn,A.M. and Rogers,J.
TITLE Sanger Xenopus tropicalis EST project 2001 (11_2003)
JOURNAL Unpublished (2003)
COMMENT Contact: Croning MDR
Sanger Institute
Hinxton, Cambridgeshire, CB10 1SA, UK
Email: trop@sanger.ac.uk
Sanger Xenopus tropicalis EST project 2001
TROPICALIS_SEQUENCE ID: TTPA003j14.plkSP6
Sequencing primer: SP6
This sequence is from a Xenopus Gene Collection (XGC) library
constructed by Nigel Garrett.
cDNA was oligo dT primed from 5ug of poly A+ RNA from tadpole
embryos. EcoRI-NotI cut cDNA was then ligated into pCS107 with
EcoRI at the 5' end and NotI at the 3' end.
Vector: pCS107; Site 1: EcoRI; Site 2: NotI
Host: Escherichia coli DH10B.

FEATURES
source
1..885
/organism="Xenopus tropicalis"
/mol_type="mRNA"
/db_xref="taxon:8364"
/clone="TTPA003j14"
/dev_stage="tadpole (stage 35-40)"
/lab_host="E. coli DH10B"
/clone_lib="XGC-tadpole"
/note="Vector: pCS107; Site 1: EcoRI; Site 2: NotI; cDNA
was oligo dT primed from 5ug of poly A+ RNA from tadpole
embryos. EcoRI-NotI cut cDNA was then ligated into pCS107
with EcoRI at the 5' end and NotI at the 3' end"

ORIGIN

Query Match 89.5%; Score 17; DB 5; Length 885;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ATTATTGATTCTGTAGG 18
|||||

Db 740 ATTATTGATTCTGTAGG 724

RESULT 19
CA049038

LOCUS
DEFINITION ssalkspa003036 kidney Salmo salar cDNA, mRNA linear EST 04-MAR-2003
ACCESSION CA049038

VERSION CA049038.1 GI:24355208

KEYWORDS EST.

SOURCE Salmo salar (Atlantic salmon)

ORGANISM Salmo salar

REFERENCE 1 (bases 1 to 251)
AUTHORS GRASP Consortium, Davidson,W.S., Koop,B.F. and
TITLE A survey of Salmo salar transcripts from high complexity cDNA
libraries
JOURNAL Unpublished (2002)
COMMENT Contact: Koop BF
Centre for Biomedical Research
University of Victoria
PO Box 3020 STN CSC, Victoria BC, V8W 3N5, Canada
Tel: 250 472 4067
Fax: 250 472 4075
Email: bkoop@uvic.ca
Centre for Biomedical Research, University of Victoria
cDNA preparation and sequencing:
Roberto Alberto, Marianne Beetz-Sargent, Maura Busby,
Peter Hunt, Linda McKinnel, BF Koop.
bioinformatics:
Gordon D Brown.

FEATURES
source
1..251
/organism="Salmo salar"
/mol_type="mRNA"
/strain="McConnell"
/db_xref="taxon:8030"
/clone_lib="kidney"
/note="Vector: pBluescriptIIISK+; Library Creator: Matthew
L Rise ; Atlantic salmon tissue contributors: Carlo Biagi,
Mitch Uh and Robert Devlin (DFO, Vancouver, B.C.), Simon
Jones (PBS, Nanaimo, B.C.), Seaspring Hatchery (Crofton,
B.C.), Rachel Roper (University of Victoria)"

ORIGIN

Query Match 84.2%; Score 16; DB 6; Length 251;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TATTGATTCTGTAGGT 19
|||||

Db 113 TATTGATTCTGTAGGT 128

RESULT 20
BB127347

LOCUS
DEFINITION BB127347 RIKEN full-length enriched, 16 days neonate cerebellum Mus musculus cDNA clone 9630021A03 3', mRNA linear EST 28-JUN-2000
musculus cDNA clone 9630021A03 3', mRNA sequence.

ACCESSION BB127347

VERSION BB127347.1 GI:8781701

KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 273)
AUTHORS Konno,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T.,
Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N.,
Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M.,
Izawa,M., Kadota,K., Kagawa,I., Kai,C., Kawai,J., Kikuchi,N.,
Kiyosawa,H., Kojima,Y., Kondo,S., Koya,S., Kurihara,C.,
Kusakabe,M., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H.,

Okazaki,Y., Ono,T., Owa,C., Saito,H., Sakai,C., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Tagawa,A., Takahashi,F., Tominaga,N., Toya,T., Tsunoda,Y., Watahiki,A., Watanabe,S., Yamamura,T., Yamanaka,I., Yano,R., Yasunishi,A., Yokota,T., Yoshida,K., Yoshiki,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.
RIKEN Mouse ESTs (Konno,H., et al.)
Unpublished (2000)
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
Please visit our web site (http://genome.rtc.riken.go.jp) for further details.

FEATURES
source

Location/Qualifiers
1. .273
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/clone="9630021A03"
/tissue_type="cerebellum"
/dev_stage="16 days neonate"
/lab_host="DH10B"
/clone_lib="RIKEN full-length enriched, 16 days neonate cerebellum"
/note="Site 1: Sali; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5',
GAGAGAGAGAGGATCCAGAGCTCTTTTCTTTTCTTTT 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5', GAGAGAGAGATTCGAGTTAATTAATTAATTCCTCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

ORIGIN

Query Match 84.2%; Score 16; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCGTGA 16
|||||
DB 173 AATTATTGATTCGTGA 188

RESULT 21
AV296455

LOCUS
DEFINITION
AV296455 RIKEN full-length enriched, 8 days embryo Mus musculus
cDNA clone 5730441N12 3', mRNA sequence.
ACCESSION
AV296455
VERSION
AV296455.1 GI:6328474
KEYWORDS
EST.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 298)
REFERENCE
AUTHORS
Konno,H., Aizawa,K., Akahira,S., Akiyama,J., Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N., Hirozane,T., Hori,F., Ishii,Y., Ishikawa,T., Itoh,M., Izawa,M., Kadota,K., Kagawa,I., Kai,C., Kawai,J., Kikuchi,N., Kojima,Y., Koya,S., Kusakabe,M., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y., Owa,C., Ozawa,Y., Saito,H., Sano,M., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Takahashi,F., Tateno,M., Tominaga,N., Tsunoda,Y., Watahiki,A., Watanabe,S., Yamamura,T., Yasunishi,A., Yokota,T., Yoshiki,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.
RIKEN Mouse ESTs (Konno,H., et al. 1999)
Unpublished (1999)
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Sasaki,N., Izawa,M., Watahiki,M., Ozawa,K., Tanaka,T., Yoneda,Y., Matsura,S., Carninci,P., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
Transcriptional sequencing: A method for DNA sequencing using RNA polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
Please visit our web site (http://genome.rtc.riken.go.jp) for further details.

FEATURES
source

Location/Qualifiers
1. .298
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="5730441N12"
/sex="mixed"
/dev_stage="8 days embryo"
/lab_host="DH10B"
/clone_lib="RIKEN full-length enriched, 8 days embryo"
/note="Site 1: Sali; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5',
GAGAGAGAGGATCCAGAGCTCTTTTCTTTTCTTTT 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of subtraction to Rot = 100.0 Second strand cDNA was prepared with the primer adapter of sequence [5',
GAGAGAGATTCGAGTTAATTAATTAATTCCTCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda

```

ORIGIN
    FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

Query Match      84.2%; Score 16; DB 1; Length 298;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTGA 16
    |||||
Db 196 AATTATTGATTCTGTGA 211

RESULT 22
BB040926/c
LOCUS BB040926 RIKEN full-length enriched, 13 days embryo male testis Mus
DEFINITION musculus cDNA clone 6030452I03 3', mRNA sequence.
ACCESSION BB040926
VERSION BB040926.1 GI:8447312
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 312)
Konno,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T.,
Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N.,
Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M.,
Izawa,M., Kadota,K., Kagawa,I., Kai,C., Kawai,J., Kikuchi,N.,
Kiyosawa,H., Kojima,Y., Kondo,S., Koya,S., Kurihara,C.,
Kusakabe,M., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H.,
Okazaki,Y., Ono,T., Owa,C., Saito,H., Sakai,C., Sato,K.,
Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T.,
Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Tagawa,A.,
Takahashi,F., Tominaga,N., Toya,T., Tsunoda,Y., Watahiki,A.,
Watanabe,S., Yamamura,T., Yamanaka,I., Yano,R., Yasunishi,A.,
Yokota,T., Yoshida,K., Yoshiki,A., Yoshino,M., Muramatsu,M. and
Hayashizaki,Y.
RIKEN Mouse ESTs (Konno,H., et al.)
Unpublished (2000)
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S.,
Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
Thermostabilization and thermoactivation of thermolabile enzymes by
trehalose and its application for the synthesis of full length
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh,M., Kitsuinai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M.,
Okazaki,Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)
Please visit our web site (http://genome.rtc.riken.go.jp) for
further details.
Location/Qualifiers
1. .312
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="6030452I03"
/sex="male"
/tissue_type="testis"
/dev_stage="13 days embryo"

FEATURES
source
1. .312
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="6030452I03"
/sex="male"
/tissue_type="testis"
/dev_stage="13 days embryo"

ORIGIN
    /lab_host="DH10B"
    /clone_lib="RIKEN full-length enriched, 13 days embryo
    male testis"
    /note="Site 1: SalI; Site 2: BamHI; cDNA library was
    prepared and sequenced in Mouse Genome Encyclopedia
    Project of Genome Exploration Research Group in Riken
    Genomic Sciences Center and Genome Science Laboratory in
    RIKEN. Division of Experimental Animal Research in Riken
    contributed to prepare mouse tissues. 1st strand cDNA was
    primed with a primer [5'
    GAGAGAGAAGGATCCAGAGCTCTTTTCTTTTCTTTTNN 3'], cDNA was
    prepared by using trehalose thermo-activated reverse
    transcriptase and subsequently enriched for full-length by
    cap-trapper. cDNA went through one round of normalization
    to Rot = 5.0 and subtraction to Rot = 100.0. Second strand
    cDNA was prepared with the primer adapter of sequence [5'
    GAGAGAGATTCTCGAGTTAATTAAATTAATCCCCCCCCC 3']. cDNA
    was cloned into the XhoI and BamHI sites. Vector: a
    modified pBluescript KS(+) after bulk excision from Lambda
    FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

ORIGIN
    Query Match      84.2%; Score 16; DB 2; Length 312;
    Best Local Similarity 100.0%; Pred. No. 95;
    Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTGA 16
    |||||
Db 39 AATTATTGATTCTGTGA 24

RESULT 23
CV317979/c
LOCUS CV317979 375 bp mRNA linear EST 24-SEP-2004
DEFINITION CM2-GN0055-060900-356-e10 GN0055 Homo sapiens cDNA, mRNA sequence.
ACCESSION CV317979
VERSION CV317979.1 GI:52641193
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 375)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
10737800
COMMENT
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. http://www.ludwig.org.br.
Location/Qualifiers
1. .375
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="GN0055"
/note="Organ: placenta normal; Vector: puc18; Site 1:
SmaI; Site_2: SmaI; A mini-library was made by cloning
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ORIGIN

Query Match 84.2%; Score 16; DB 7; Length 375;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ATTATTGATTCTGTAG 17
|||||

Db 312 ATTATTGATTCTGTAG 297
|||||

RESULT 24
BG360551
LOCUS
DEFINITION
RTI00001 Rainbow Trout Intestine Lambda Zap II Vector library
Oncorhynchus mykiss cDNA 5' similar to Unknown, mRNA sequence.

ACCESSION
BG360551
VERSION
KEYWORDS
SOURCE
ORGANISM
Oncorhynchus mykiss (rainbow trout)
Oncorhynchus mykiss
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
1 (bases 1 to 410)
Kim, S. and Killefer, J.
Analysis of Rainbow Trout (Oncorhynchus mykiss) Intestine Expressed
Sequence Tags
Unpublished (2001)
Contact: Killefer J
Division of Animal and Veterinary Sciences
West Virginia University
PO Box 6108, Morgantown, WV 26506-6108, USA
Tel: 304 293 2631
Fax: 304 293 3740
Email: jkillef@wvu.edu
Insert Length: 410 Std Error: 0.00
Seq primer: T3 primer.

FEATURES
source
Location/Qualifiers
1..410
/organism="Oncorhynchus mykiss"
/mol_type="mRNA"
/db_xref="taxon:8022"
/cell_type="Smooth muscle"
/clone_lib="Rainbow Trout Intestine Lambda Zap II Vector
library"
/note="Organ: Intestine; Vector: pBluescript SK(+/-);
Site 1: EcoR I; Site 2: Xho I
TAG_SEQ=Not found"

ORIGIN

Query Match 84.2%; Score 16; DB 4; Length 410;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TATTGATTCTGTAGT 19
|||||

Db 365 TATTGATTCTGTAGT 380
|||||

RESULT 25
AI760729
LOCUS
DEFINITION
w108f05.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2389665 3',
mRNA sequence.

ACCESSION
AI760729
VERSION
AI760729.1 GI:5176396
KEYWORDS
EST.

SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 457)
NCI-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Ash Alizadeh, John Byrd, M.D., Mike Grever,
M.D., Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CCGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 2291 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 443.

FEATURES
source
Location/Qualifiers
1..457
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2389665"
/tissue_type="B-cell, chronic lymphocytic leukemia"
/lab_host="DH10B"
/clone_lib="NCI_CGAP CLL1"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA
was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGCGCCGATGCTTTTTTT
T 3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pT7T3 vector.
Library is normalized, and was constructed by Bento
Soares and M.Fatima Bonaldo."

ORIGIN

Query Match 84.2%; Score 16; DB 1; Length 457;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTAGG 18
|||||

Db 4 TTATTGATTCTGTAGG 19
|||||

RESULT 26
CA061810/c
LOCUS
DEFINITION
ssalrqp001052 mixed_tissue Salmo salar cDNA, mRNA sequence.
ACCESSION
CA061810.1 GI:24392053
VERSION
KEYWORDS
SOURCE
ORGANISM
Salmo salar (Atlantic salmon)
Salmo salar
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Salmo.
1 (bases 1 to 506)
GRASP Consortium, Davidson, W.S., Koop, B.F. and
<http://web.uvic.ca/cbr/grasp>.
A survey of Salmo salar transcripts from high complexity cDNA
libraries
Unpublished (2002)
Contact: Koop BF
Centre for Biomedical Research
University of Victoria
PO Box 3020 STN CSC, Victoria BC, V8W 3N5, Canada

Tel: 250 472 4067
Fax: 250 472 4075
Email: bkoop@uvic.ca
Centre for Biomedical Research, University of Victoria
cDNA preparation and sequencing:
Roberto Alberto, Marianne Beetz-Sargent, Maura Busby,
Peter Hunt, Linda McKinnel, BF Koop.
bioinformatics:
Gordon D Brown
POLYA=Yes.
Location/Qualifiers
1. .506
/organism="Salmo salar"
/mol_type="mRNA"
/strain="McConnell"
/db_xref="taxon:8030"
/clone_lib="mixed tissue"
/note="Vector: pCMVsport6; Library Creator: Research
Genetics ; Atlantic salmon tissue contributors: Carlo
Biagi, Mitch Uh and Robert Devlin (DFO, Vancouver, B.C.),
Simon Jones (PBS, Nanaimo, B.C.), Seaspring Hatchery
(Crofton, B.C.), Rachel Roper (University of Victoria)"

ORIGIN

Query Match 84.2%; Score 16; DB 6; Length 506;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TATTGATTCTGTAGGT 19
|||||

Db 481 TATTGATTCTGTAGGT 466

RESULT 27
CO228348/c

LOCUS
DEFINITION
CO228348
VERSION
KEYWORDS
SOURCE
ORGANISM
Picea glauca (white spruce)
Picea glauca
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Picea.
1 (bases 1 to 562)
Ralph,S., Kolosova,N., Cooper,D., Butterfield,Y., Kirkpatrick,R.,
Liu,J., Palmquist,D., Stott,J., Barber,S., Yang,G., Babakaiff,R.,
Brown-John,M., Chand,S., Featherstone,R., Masson,A., Mayo,M.,
Moran,J., Olson,T., Wong,D., Friedmann,M.F., Ritland,C.E.,
Siddiqui,A., Holt,R., Jones,S., Marra,M., Ellis,B.E., Douglas,C.,
Ritland,K. and Bohlmann,J.
The spruce transcriptome: Analysis of expressed sequence tags from
multiple cDNA libraries
Unpublished (2004)
Contact: Joerg Bohlmann
Genome BC forest Genomics program
University of British Columbia
UBC Biotechnology Laboratory, 6174 University Boulevard, Rm. 237,
Vancouver, British Columbia, Canada, V6T 1Z3
Tel: 1-604-822-0282
Fax: 1-604-822-6097
Email: bohlmann@interchange.ubc.ca
Plate: WS0014 row: 1 column: 04
High quality sequence stop: 562
POLYA=Yes.
Location/Qualifiers
1. .562
/organism="Picea glauca"
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/db_xref="taxon:3330"
/clone="WS0014_I04"

FEATURES
source

/sex="Hermaphrodite"
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/note="Organ: Foliage from 25 year old trees harvested at
Kalamalka Research Station in Vernon, British Columbia on
June 15th, 2001; Vector: pBluescript II SK (+) XR; Site_1:
EcoRI (5' end of cDNA); Site 2: XhoI (3' end of cDNA);
cDNA was prepared from 5 micrograms of mRNA and
directionally ligated into the pBluescript II SK (+) XR
vector using the pBluescript II XR cDNA Library
Construction Kit according to manufacturer's instructions
with modifications (Stratagene). Plasmid DNA was then
transformed by electroporation into DH10B cells
(Invitrogen) for propagation."

ORIGIN

Query Match 84.2%; Score 16; DB 7; Length 562;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTA 16
|||||

Db 126 AATTATTGATTCTGTA 111

RESULT 28
CK881762

LOCUS
DEFINITION
CK881762
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Salmo salar (Atlantic salmon)
Salmo salar
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Salmo.
1 (bases 1 to 566)
Hoyheim,B.
Expressed Sequence Tags from an Atlantic salmon Head kidney cDNA
library
Unpublished (2004)
Contact: Bjorn Hoyheim
Department of Basic Sciences and Aquatic Medicine
Norwegian School of Veterinary Science
PO Box 8146 DEP, NO-0033 Oslo, Norway
Tel: 47 22 96 47 03
Fax: 47 22 96 47 58
Email: Bjorn.Hoyheim@veths.no.
Location/Qualifiers
1. .566
/organism="Salmo salar"
/mol_type="mRNA"
/db_xref="taxon:8030"
/clone="FN4-1269"
/tissue_type="Head kidney"
/dev_stage="Pre-smolt"
/lab_host="XL 10-Gold"
/clone_lib="Atlantic salmon Head kidney cDNA library"
/note="Vector: pBluescript II SK (+) XR; Site_1: EcoRI;
Site_2: XhoI"

FEATURES
source

Query Match 84.2%; Score 16; DB 7; Length 566;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TATTGATTCTGTAGGT 19
|||||

Db 146 TATTGATTCTGTAGGT 161

RESULT 29
AW912973/c
LOCUS
DEFINITION
uf47a10.y1 Soares_mammary_gland_NMLMG Mus musculus cDNA clone
IMAGE:1514490 5' similar to gb:M74525 UBIQUITIN-CONJUGATING ENZYME
E2-17 KD (HUMAN);, mRNA sequence.
ACCESSION
AW912973
VERSION
AW912973.1 GI:8078597
KEYWORDS
EST.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 581)
AUTHORS
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Other ESTs: uf47a10.x1
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:941342
Seq primer: -40RP from Gibco
High quality sequence stop: 332.
Location/Qualifiers
1..581
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/clone="IMAGE:1514490"
/sex="female (lactating)"
/tissue_type="mammary gland"
/lab_host="DH10B"
/clone_lib="Soares mammary gland_NMLMG"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from mammary
gland tissue from a lactating female, and was then primed
with a Not I - oligo(dT) primer. Double-stranded cDNA was
ligated to Eco RI adaptors (Pharmacia), digested with Not
I and cloned into the Not I and Eco RI sites of the
modified pT7T3 vector. Library is normalized. Library
was constructed by Bento Soares and M. Fatima Bonaldo."

Query Match 84.2%; Score 16; DB 2; Length 581;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCGTAGG 18
Db 293 TTATTGATTCGTAGG 278

RESULT 30
BI946345
LOCUS
DEFINITION
BI946345 581 bp mRNA linear EST-19-OCT-2001
01088 leafy spurge Lambda HybrizAP 2.1 two-hybrid vector cDNA
Library Euphorbia esula cDNA clone SAN 5', similar to tuber-specific
and sucrose-responsive element binding factor, mRNA sequence.
ACCESSION
BI946345
VERSION
BI946345.1 GI:16284932
KEYWORDS
EST.
SOURCE
Euphorbia esula (leafy spurge)
ORGANISM
Euphorbia esula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids I; Malpighiales; Euphorbiaceae; Euphorbioideae;
Euphorbiae; Euphorbia.
REFERENCE
1 (bases 1 to 581)
AUTHORS
Anderson, J.V. and Horvath, D.P.

TITLE
Identification of mRNAs expressed in underground adventitious buds
of Euphorbia esula (leafy spurge)
JOURNAL
Unpublished (2000)
COMMENT
Contact: Anderson JV
Plants Science Research
USDA/ARS, Biosciences Research Lab
1605 Albrecht Blvd., PO Box 5674, Fargo, ND 58105, USA
Tel: 701 239 1263
Fax: 701 239 1252
Email: andersjv@fargo.ars.usda.gov
Seq primer: PAD5.
Location/Qualifiers
1..581
/organism="Euphorbia esula"
/mol_type="mRNA"
/db_xref="taxon:3993"
/clone="SAN"
/tissue_type="underground adventitious buds"
/dev_stage="3-day induced (decapitated)"
/clone_lib="leafy spurge Lambda HybrizAP 2.1 two-hybrid
vector cDNA Library"

Query Match 84.2%; Score 16; DB 4; Length 581;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCGTGA 16
Db 133 AATTATTGATTCGTGA 148

RESULT 31
CR315576
LOCUS
DEFINITION
CR315576 583 bp DNA linear GSS 01-MAR-2004
Medicago truncatula BAC ends cultivar Jemalong A17 of Medicago
truncatula, genomic survey sequence.
ACCESSION
CR315576
VERSION
CR315576.1 GI:44861720
KEYWORDS
GSS.
SOURCE
Medicago truncatula (barrel medic)
ORGANISM
Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
Medicago.
REFERENCE
1 (bases 1 to 583)
AUTHORS
Genoscope.
TITLE
Direct Submission
JOURNAL
Submitted (25-FEB-2004) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr)
- Web : www.genoscope.cns.fr
Location/Qualifiers
1..583
/organism="Medicago truncatula"
/mol_type="genomic DNA"
/cultivar="Jemalong A17"
/db_xref="taxon:3880"
/clone_lib="MTE1"
/note="Vector: pIndigoBAC ; Site_1: EcoRI ; Site_2: EcoRI
; Debelle F. and Chalhoub B.-Genoscope sequence ID :
mtel-4G23RM1"

Query Match 84.2%; Score 16; DB 9; Length 583;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCGTAGGT 19
Db 306 TATTGATTCGTAGGT 321

Tel: 304 724 8340 x2129
Fax: 304 725 0351
Email: crexroad@cccwa.ars.usda.gov
Single pass sequencing. Bases called with phred v0.020425.c and trimmed with the aid of the trim_alt option. Vector identified by cross_match v0.990329.
Seq primer: ACGGATAACAATTTCACACAGGA.

FEATURES

source
Location/Qualifiers
1..622
/organism="Oncorhynchus mykiss"
/mol_type="mRNA"
/db_xref="taxon:8022"
/clone="IRT69P08_D_H04"
/tissue_type="pooled"
/lab_host="DH10B"
/clone_lib="NCCCW A IRT"
/note="Vector: pCMV SPORT6; Site 1: NotI; Site 2: SalI;
Library made from pooled tissue from brain, gill, liver,
spleen, muscle, and kidney."

ORIGIN

Query Match 84.2%; Score 16; DB 6; Length 622;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TATTGATTCGTAGGT 19

Db 400 TATTGATTCGTAGGT 415

RESULT 35

CO217921/c
LOCUS
DEFINITION
WS0101.B21_K21 SS-R-N-A-11 Picea sitchensis cDNA clone WS0101_K21
3', mRNA sequence.

ACCESSION
CO217921
VERSION
CO217921.1 GI:49040235

KEYWORDS

SOURCE
Picea sitchensis (Sitka spruce)
ORGANISM
Picea sitchensis
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Picea.
1 (bases 1 to 634)

REFERENCE

AUTHORS
Ralph,S., Kolosova,N., Cooper,D., Butterfield,Y., Kirkpatrick,R.,
Liu,J., Palmquist,D., Stott,J., Barber,S., Yang,G., Babakaiff,R.,
Brown-John,M., Chand,S., Featherstone,R., Masson,A., Mayo,M.,
Moran,J., Olson,T., Wong,D., Friedmann,M.F., Ritland,C.E.,
Siddiqui,A., Holt,R., Jones,S., Marra,M., Ellis,B.E., Douglas,C.,
Ritland,K. and Bohlmann,J.
The spruce transcriptome: Analysis of expressed sequence tags from
multiple cDNA libraries

TITLE

JOURNAL
COMMENT
Unpublished (2004)

Contact: Joerg Bohlmann
Genome BC forest genomics program
University of British Columbia
UBC Biotechnology Laboratory, 6174 University Boulevard, Rm. 237,
Vancouver, British Columbia, Canada, V6T 1Z3
Tel: 1-604-822-0282
Fax: 1-604-822-6097

Email: bohlmann@interchange.ubc.ca
Plate: WS0101 row: K column: 21
High quality sequence stop: 634
POLYA=Yes.

FEATURES

source
Location/Qualifiers
1..634
/organism="Picea sitchensis"
/mol_type="mRNA"
/cultiivar="Gb2-229"
/db_xref="taxon:3332"
/clone="WS0101_K21"
/sex="Hermaphrodite"
/tissue_type="Young root growth (terminal 1-3 cm) and old
root growth (distal to terminal 1-3 cm) tissues"

/dev_stage="three year old clonal trees grown under
greenhouse conditions in standard potting soil mixture."
/lab_host="E. coli DH10B cells"
/clone_lib="SS-R-N-A-11"
/note="Organ: Roots; Vector: pBluescript II SK (+) XR;
Site 1: EcoRI (5' end of cDNA); Site 2: XhoI (3' end of
cDNA); mRNA was isolated from each tissue source
independently and equal quantities of mRNA from each
tissue were then pooled. cDNA was prepared from 5
micrograms of mRNA and directionally ligated into the
pBluescript II SK (+) XR vector using the pBluescript II
XR cDNA Library Construction Kit according to
manufacturer's instructions with modifications
(Stratagene). Plasmid DNA was then transformed by
electroporation into DH10B cells (Invitrogen) for
propagation. Normalization was applied according to
published methods [Bonaldo M.F. et al. (1996) Genome
Research 6(9):791] in order to reduce the abundance of
highly expressed transcripts."

ORIGIN

Query Match 84.2%; Score 16; DB 7; Length 634;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCGTGA 16

Db 139 AATTATTGATTCGTGA 124

RESULT 36

CB502289
LOCUS
DEFINITION
ssalplnb506296_rev gut Salmo salar cDNA, mRNA sequence.

ACCESSION
CB502289
VERSION
CB502289.1 GI:29313515

KEYWORDS

SOURCE
Salmo salar (Atlantic salmon)
ORGANISM
Salmo salar
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Salmo.
1 (bases 1 to 642)

REFERENCE

AUTHORS
GRASP Consortium, Davidson,W.S., Koop,B.F. and
http://web.uvic.ca/cbr/grasp.

TITLE
A survey of Salmo salar transcripts from high complexity cDNA
libraries

JOURNAL

COMMENT
Unpublished (2002)
Contact: Koop BF
Centre for Biomedical Research
University of Victoria

PO Box 3020 STN CSC, Victoria BC, V8W 3N5, Canada
Tel: 250 472 4067
Fax: 250 472 4075
Email: bkoop@uvic.ca

Genome Sciences Centre, BC Cancer Agency cDNA preparation,
sequencing and bioinformatics: Y Butterfield, R Kirkpatrick, J
Asano, N Girn, R Guin, D Lee, S Lee, T Olson, P Pandoh, A Prahbu, D
Smailus, L Spence, J Stott, S Taylor, G Yang, J Schein, S Jones and
M Marra.

FEATURES

source
Location/Qualifiers
1..642
/organism="Salmo salar"
/mol_type="mRNA"
/strain="McConnell"
/db_xref="taxon:8030"
/clone_lib="gut"

/note="Vector: pBluescriptIIISK+; Library Creator: Matthew
L Rise ; Atlantic salmon tissue contributors: Carlo Biagi,
Mitch Uh and Robert Devlin (DFO, Vancouver, B.C.), Simon
Jones (PBS, Nanaimo, B.C.), Seaspring Hatchery (Crofton,
B.C.), Rachel Roper (University of Victoria)"

ORIGIN

Query Match 84.2%; Score 16; DB 6; Length 642;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
Db 627 TATTGATTCTGTAGGT 642

RESULT 37
AG151770
LOCUS
DEFINITION Pan troglodytes DNA, clone: RP43-014P17.TJ, genomic survey
sequence.
ACCESSION AG151770
VERSION AG151770.1 GI:16681448
KEYWORDS
SOURCE
ORGANISM Pan troglodytes (chimpanzee)
Pan troglodytes
Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.

REFERENCE 1
AUTHORS Fujiyama,A., Hattori,M., Toyoda,A., Taylor,T.D., Yada,T.,
Totoki,Y., Watanabe,H. and Sakaki,Y.
TITLE BAC end sequences of Library RPCI-43
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 647)
AUTHORS Fujiyama,A., Hattori,M., Toyoda,A., Taylor,T.D., Yada,T.,
Totoki,Y., Watanabe,H. and Sakaki,Y.
TITLE Direct Submission
JOURNAL Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC);
1-7-22 Suehiro-chou,Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
(E-mail:chimbbs@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/,
Tel:81-45-503-9111, Fax:81-45-503-9170)
Clones are derived from the chimpanzee BAC library RPCI-43 This BAC
end was generated during the R&D process and may have higher chance
of clone tracking errors.

PRIMERS
Sequencing: TJ
LIBRARY
Vector : pBACe3.6
R.Site 1 : EcoRI
R.Site 2 : EcoRI.
Location/Qualifiers
1. .647
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-014P17.TJ"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RPCI-43 Chimpanzee Male BAC Library"

ORIGIN
Query Match 84.2%; Score 16; DB 9; Length 647;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTA 16
Db 496 AATTATTGATTCTGTA 511

RESULT 38
CA377750
LOCUS
DEFINITION CA377750 NCCCW 1RT Oncorhynchus mykiss cDNA clone 1RT40D13_B_07 5',
mRNA sequence.
ACCESSION CA377750
VERSION CA377750.1 GI:24697047
KEYWORDS EST.

SOURCE Oncorhynchus mykiss (rainbow trout)
ORGANISM Oncorhynchus mykiss
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
REFERENCE 1 (bases 1 to 648)
AUTHORS Rexroad,C.E. 3rd, Lee,Y., Keele,J.W., Karamycheva,S., Brown,G.,
Koop,B., Gahr,S.A., Palti,Y. and Quackenbush,J.
TITLE Sequence analysis of a rainbow trout cDNA library and creation of a
gene index
JOURNAL Cytogenet. Genome Res. 102 (1-4), 347-354 (2003)
COMMENT Contact: Rexroad CE
USDA, ARS, National Center for Cool and Cold Water Aquaculture
11876 Leetown Road, Kearneysville, WV 25430, USA
Tel: 304 724 8340 x2129
Fax: 304 725 0351
Email: crexroad@ncccw.ars.usda.gov
Single pass sequencing. Bases called with phred v0.020425.c and
trimmed with the aid of the trim_alt option. Vector identified by
cross_match v0.990329.
Seq primer: AGCGATACAAATTTCACACAGGA.
Location/Qualifiers
1. .648
/organism="Oncorhynchus mykiss"
/mol_type="mRNA"
/db_xref="taxon:8022"
/clone="1RT40D13_B_07"
/tissue_type="pooled"
/lab_host="DH10B"
/clone_lib="NCCCW 1RT"
/note="Vector: pCMV SPORT6; Site 1: NotI; Site 2: SalI;
Library made from pooled tissue from brain, gill, liver,
spleen, muscle, and kidney."

ORIGIN
Query Match 84.2%; Score 16; DB 6; Length 648;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
Db 206 TATTGATTCTGTAGGT 221

RESULT 39
BX077071
LOCUS
DEFINITION BX077071 AGENAE Rainbow trout normalized multi-tissues library
(tcad) Oncorhynchus mykiss cDNA clone tcad0005a.1.16 3prim, mRNA
sequence.
ACCESSION BX077071
VERSION BX077071.2 GI:42604961
KEYWORDS EST.
SOURCE Oncorhynchus mykiss (rainbow trout)
ORGANISM Oncorhynchus mykiss
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
REFERENCE 1 (bases 1 to 651)
AUTHORS Govoroun,M., Guiguen,Y. and Le Gac,F.
TITLE Construction and primary characterization of normalized cDNA
libraries in rainbow trout, Oncorhynchus mykiss
JOURNAL Unpublished (2003)
COMMENT On Jan 14, 2003 this sequence version replaced gi:27740490.
Contact: Guiguen Y
INRA - SCRIBE
Campus de beaulieu, RENNES cedex, 35042, France
Tel: 02.23.48.50.09
Fax: 02.23.48.50.20
Email: Yann.Guiguen@beaulieu.rennes.inra.fr
Sequence cleaned of vector, adaptor and repetitions. Contact us
at signasupport@jouy.inra.fr to obtain the chromatogram of this
sequence.

```

Plate: 0005 row: 1 column: 16
Seq primer: T3.
Location/Qualifiers
1..651
/organism="Oncorhynchus mykiss"
/mol_type="mRNA"
/db_xref="taxon:8022"
/clone="tcad0005a.1.16"
/tissue_type="adipose tissue, blood, brain,
differentiating gonads, interrenal, intestine, kidney,
liver, muscle, ovary, pituitary, testis"
/lab_host="DH108"
/clone_lib="AGENAE Rainbow trout normalized multi-tissues
library (tcad)"
/note="Vector: pT7T3D-pac; Clone distribution : AGENAE
Resource centre. Francois PIUMI,
Francois.Piumi@jouy.inra.fr, INRA, CEA Radiobiologie et
Etude du genome (LREG), Domaine de Vilvert, 78352,
Jouy-en-Josas cedex, France, +33 (0) 1.34.65.28.02, +33
(0) 1.34.65.22.73"

ORIGIN
Query Match      84.2%; Score 16; DB 5; Length 651;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 TATTGATTCTGTAGGT 19
|||||
Db      147 TATTGATTCTGTAGGT 162

RESULT 40
CE160496/c
LOCUS
DEFINITION
tigr-gss-dog-17000371420074 Dog Library Canis familiaris genomic,
genomic survey sequence.
ACCESSION
CE160496
VERSION
CE160496.1 GI:35289890
KEYWORDS
GSS.
SOURCE
Canis familiaris (dog)
ORGANISM
Canis familiaris
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
REFERENCE
1 (bases 1 to 651)
AUTHORS
Kirkness,E.F., Bafna,V., Halpern,A.L., Levy,S., Remington,K.,
Rusch,D.B., Delcher,A.L., Pop,M., Wang,W., Fraser,C.M. and
Venter,J.C.
TITLE
The dog genome: survey sequencing and comparative analysis
JOURNAL
Science 301 (5641), 1898-1903 (2003)
MEDLINE
22875432
PUBMED
14512627
COMMENT
Contact: Kirkness EF
The Institute for Genomic Research
Department of Eukaryotic Genomics, TIGR, 9712 Medical Center Drive,
Rockville, MD 20850, USA
Tel: 301-838-0200
Fax: 301-838-0208
Email: ekirknes@tigr.org
Class: shotgun.

FEATURES
source
Location/Qualifiers
1..651
/organism="Canis familiaris"
/mol_type="genomic DNA"
/strain="Standard Poodle"
/db_xref="taxon:9615"
/clone_lib="Dog Library"
/note="Site 1: BstXI; Libraries were prepared from
peripheral blood"

ORIGIN
Query Match      84.2%; Score 16; DB 9; Length 651;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Plate: 0005 row: 1 column: 16
Seq primer: T3.
Location/Qualifiers
1..651
/organism="Oncorhynchus mykiss"
/mol_type="mRNA"
/db_xref="taxon:8022"
/clone="tcad0005a.1.16"
/tissue_type="adipose tissue, blood, brain,
differentiating gonads, interrenal, intestine, kidney,
liver, muscle, ovary, pituitary, testis"
/lab_host="DH108"
/clone_lib="AGENAE Rainbow trout normalized multi-tissues
library (tcad)"
/note="Vector: pT7T3D-pac; Clone distribution : AGENAE
Resource centre. Francois PIUMI,
Francois.Piumi@jouy.inra.fr, INRA, CEA Radiobiologie et
Etude du genome (LREG), Domaine de Vilvert, 78352,
Jouy-en-Josas cedex, France, +33 (0) 1.34.65.28.02, +33
(0) 1.34.65.22.73"

ORIGIN
Query Match      84.2%; Score 16; DB 5; Length 651;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 TATTGATTCTGTAGGT 19
|||||
Db      147 TATTGATTCTGTAGGT 162

RESULT 41
CE497718/c
LOCUS
DEFINITION
CB497718
omykrbna501060 Oncorhynchus mykiss Chilliack River steelhead whole
Oncorhynchus mykiss cDNA, mRNA sequence.
ACCESSION
CB497718
VERSION
CB497718.1 GI:29308944
KEYWORDS
EST.
SOURCE
Oncorhynchus mykiss (rainbow trout)
ORGANISM
Oncorhynchus mykiss
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
REFERENCE
1 (bases 1 to 655)
AUTHORS
GRASP Consortium, Davidson,W.S., Koop,B.F. and
http://web.uvic.ca/cbr/grasp.
TITLE
A survey of Salmo salar transcripts from high complexity cDNA
libraries
JOURNAL
Unpublished (2002)
COMMENT
Contact: Koop BF
Centre for Biomedical Research
University of Victoria
PO Box 3020 STN CSC, Victoria BC, V8W 3N5, Canada
Tel: 250 472 4067
Fax: 250 472 4075
Email: bkoop@uvic.ca
Genome Sciences Centre, BC Cancer Agency cDNA preparation,
sequencing and bioinformatics: Y Butterfield, R Kirkpatrick, J
Asano, N Girm, R Guin, R Guin, D Lee, S Lee, T Olson, P Pandoh, A Prabhu, D
Smalilus, L Spence, J Stott, S Taylor, G Yang, J Schein, S Jones and
M Marra.
POLYA=Yes.
Location/Qualifiers
1..655
/organism="Oncorhynchus mykiss"
/mol_type="mRNA"
/strain="Chilliack River steelhead"
/db_xref="taxon:8022"
/clone_lib="Oncorhynchus mykiss Chilliack River steelhead
whole"
/note="Vector: pBlueScriptIIISK+; Library Creator: Matthew
L Rise, BF Koop ; Rainbow trout tissue contributors:
Robert Devlin (DFO, Vancouver, B.C.)"

ORIGIN
Query Match      84.2%; Score 16; DB 6; Length 655;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 TATTGATTCTGTAGGT 19
|||||
Db      495 TATTGATTCTGTAGGT 480

RESULT 42
CE545000/c
LOCUS
DEFINITION
CE545000
tigr-gss-dog-17000366094583 Dog Library Canis familiaris genomic,
genomic survey sequence.
ACCESSION
CE545000
VERSION
CE545000.1 GI:36861781
KEYWORDS
GSS.
SOURCE
Canis familiaris (dog)
ORGANISM
Canis familiaris
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
REFERENCE
1 (bases 1 to 669)
```

AUTHORS Kirkness,E.F., Bafna,V., Halpern,A.L., Levy,S., Remington,K., Rusch,D.B., Delcher,A.L., Pop,M., Wang,W., Fraser,C.M. and Venter,J.C.
TITLE The dog genome: survey sequencing and comparative analysis
JOURNAL Science 301 (5641), 1898-1903 (2003)
MEDLINE 22875432
PUBMED 14512627
COMMENT Contact: Kirkness EF
The Institute for Genomic Research
Department of Eukaryotic Genomics, TIGR, 9712 Medical Center Drive, Rockville, MD 20850, USA
Tel: 301-838-0200
Fax: 301-838-0208
Email: ekirknes@tigr.org
Class: shotgun.
FEATURES
source Location/Qualifiers
1..669
/organism="Canis familiaris"
/mol_type="genomic DNA"
/strain="Standard Poodle"
/db_xref="taxon:9615"
/clone_lib="Dog Library"
/note="Site 1: BstXI; Libraries were prepared from peripheral blood"
ORIGIN
Query Match 84.2%; Score 16; DB 9; Length 669;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TATTGATTCTGTAGGT 19
|||||
DB 554 TATTGATTCTGTAGGT 539
RESULT 43
CO204386/c
LOCUS WS0064.B21 F14 IS-B-A-7 Picea engelmannii x Picea sitchensis cDNA
DEFINITION clone WS0064_F14 3', mRNA sequence.
ACCESSION CO204386
VERSION CO204386.1 GI:49015561
KEYWORDS EST.
SOURCE Picea engelmannii x Picea sitchensis
ORGANISM Picea engelmannii x Picea sitchensis
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Picea.
REFERENCE 1 (bases 1 to 683)
AUTHORS Ralph,S., Kolosova,N., Cooper,D., Butterfield,Y., Kirkpatrick,R., Liu,J., Palmquist,D., Stott,J., Barber,S., Yang,G., Babakaiff,R., Brown-John,M., Chand,S., Featherstone,R., Masson,A., Mayo,M., Moran,J., Olson,T., Wong,D., Friedmann,M.F., Ritland,C.E., Siddiqui,A., Holt,R., Jones,S., Marra,M., Ellis,B.E., Douglas,C., Ritland,K. and Bohlmann,J.
TITLE The spruce transcriptome: Analysis of expressed sequence tags from multiple cDNA libraries
JOURNAL Unpublished (2004)
COMMENT Contact: Joerg Bohlmann
Genome BC forest genomics program
University of British Columbia
UBC Biotechnology Laboratory, 6174 University Boulevard, Rm. 237, Vancouver, British Columbia, Canada, V6T 1Z3
Tel: 1-604-822-0282
Fax: 1-604-822-6097
Email: bohlmann@interchange.ubc.ca
Plate: WS0064 row: F column: 14
High quality sequence stop: 683
POLYA=Yes.
FEATURES
source Location/Qualifiers
1..683
/organism="Picea engelmannii x Picea sitchensis"
/mol_type="mRNA"
/cultivar="Fal-1028"

/db_xref="taxon:273280"
/clone="WS0064_F14"
/sex="Hermaphrodite"
/lab_host="E. coli DH10B cells"
/clone_lib="IS-B-A-7"
/note="Organ: Bark (with phloem and cambium attached) from one year old clonal trees grown under greenhouse conditions in standard potting soil mixture; Vector: pBluescript II SK (+) XR; Site 1: EcoRI (5' end of cDNA); Site_2: XhoI (3' end of cDNA); Bark was wounded using razor blades along the entire length of the tree at 5 mm intervals on opposite sides of the trunk. The same trees were also sprayed with a 0.01% (v/v) methyl jasmonate solution resuspended in 0.1% (v/v) tween 20 (~50mLs per tree). Bark tissue with phloem attached was harvested 24 hours, 2 days, 4 days and 8 days after initiating the treatment. mRNA was isolated from each tissue source independently and equal quantities of mRNA from each tissue were then pooled. cDNA was prepared from 5 micrograms of mRNA and directionally ligated into the pBluescript II SK (+) XR vector using the pBluescript II XR cDNA Library Construction Kit according to manufacturer's instructions with modifications (Stratagene). Plasmid DNA was then transformed by electroporation into DH10B cells (Invitrogen) for propagation."
ORIGIN
Query Match 84.2%; Score 16; DB 7; Length 683;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTGTA 16
|||||
DB 303 AATTATTGATTCTGTA 288
RESULT 44
BH973406/c
LOCUS BH973406 686 bp DNA linear GSS 02-OCT-2002
DEFINITION odj04ell.g1 B.oleracea002 Brassica oleracea genomic, genomic survey sequence.
ACCESSION BH973406
VERSION BH973406.1 GI:23456409
KEYWORDS GSS.
SOURCE Brassica oleracea
ORGANISM Brassica oleracea
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Brassica.
REFERENCE 1 (bases 1 to 686)
AUTHORS Delehaunty,K., Fewell,G., Fulton,L., McCombie,W.R., Miner,T., Nash,W., Rabinowicz,P.D. and Wilson,R.K.
TITLE Whole genome shotgun reads from Brassica oleracea
JOURNAL Unpublished (2002)
COMMENT Contact: Richard K. Wilson
Genome Sequencing Center
Washington University School of Medicine
Email: submissions@watson.wustl.edu
Plate: odj04 row: e column: 11
Seq primer: -28RPpOT reverse
Class: shotgun
High quality sequence start: 24
High quality sequence stop: 457.
FEATURES
source Location/Qualifiers
1..686
/organism="Brassica oleracea"
/mol_type="genomic DNA"
/db_xref="taxon:3712"
/clone_lib="B.Oleracea002"
/note="Vector: pOTw13; Whole genome shotgun library from flowering buds. DNA was purified from a crude nuclear prep using Brassica oleracea T0100DH3 buds provided by

Thomas Osborn at the University of Wisconsin. Genomic DNA was provided by Pablo Rabinowicz (CSHL) and the shotgun library prepared at Washington University Genome Sequencing Center."

propagation. Normalization was applied according to published methods [Bonaldo M.F. et al. (1996) Genome Research 6(9):791] in order to reduce the abundance of highly expressed transcripts."

ORIGIN

Query Match 84.2%; Score 16; DB 8; Length 686;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 84.2%; Score 16; DB 7; Length 687;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TATTGATTCCTAGGT 19
|||||
Db 95 TATTGATTCCTAGGT 80

Qy 1 AATTATTGATTCCTGTA 16
|||||
Db 145 AATTATTGATTCCTGTA 130

RESULT 45
CO240857/c
LOCUS
DEFINITION CO240857 687 bp mRNA linear EST 22-JUN-2004
WS0078.B21 H05 WS-PS-N-A-8 Picea glauca cDNA clone WS0078_H05 3',
mRNA sequence.

ACCESSION CO240857
VERSION CO240857.1 GI:49063174
KEYWORDS EST.
SOURCE Picea glauca (white spruce)
ORGANISM Picea glauca

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Picea.
REFERENCE 1 (bases 1 to 687)
AUTHORS Ralph,S., Kolosova,N., Cooper,D., Butterfield,Y., Kirkpatrick,R.,
Liu,J., Palmquist,D., Stott,J., Barber,S., Yang,G., Babakaiff,R.,
Brown-John,M., Chand,S., Featherstone,R., Masson,A., Mayo,M.,
Moran,J., Olson,T., Wong,D., Friedmann,M.F., Ritland,C.E.,
Siddiqui,A., Holt,R., Jones,S., Marra,M., Ellis,B.E., Douglas,C.,
Ritland,K. and Bohlmann,J.

TITLE The spruce transcriptome: Analysis of expressed sequence tags from
multiple cDNA libraries

JOURNAL Unpublished (2004)
COMMENT Contact: Joerg Bohlmann
Genome BC forest genomics program
University of British Columbia
UBC Biotechnology Laboratory, 6174 University Boulevard, Rm. 237,
Vancouver, British Columbia, Canada, V6T 1Z3
Tel: 1-604-822-0282
Fax: 1-604-822-6097
Email: bohlmann@interchange.ubc.ca
Plate: WS0078 row: H column: 05
High quality sequence stop: 687
POLYA=Yes.

FEATURES

source Location/Qualifiers
1..687
/organism="Picea glauca"
/mol_type="mRNA"
/cultivar="PG-29"
/db_xref="taxon:3330"
/clone="WS0078_H05"
/sex="Hermaphrodite"
/tissue type="Flushing buds harvested May 16th, young
shoots harvested June 15th, and mature shoots harvested
June 15th"
/lab_host="E. coli DH10B cells"
/clone lib="WS-PS-N-A-8"
/note="Organ: Foliage from 25 year old trees harvested at
Kalamaika Research Station in Vernon, British Columbia in
2001; Vector: pBluescript II SK (+) XR; Site 1: EcoRI (5'
end of cDNA); Site 2: XhoI (3' end of cDNA); mRNA was
isolated from each tissue source independently and equal
quantities of mRNA from each tissue were then pooled. cDNA
was prepared from 5 micrograms of mRNA and directionally
ligated into the pBluescript II SK (+) XR vector using the
pBluescript II XR cDNA Library Construction Kit according
to manufacturer's instructions with modifications
(Stratagene). Plasmid DNA was then transformed by
electroporation into DH10B cells (Invitrogen) for

Search completed: April 26, 2005, 16:54:18
Job time : 3141 secs

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OM nucleic - nucleic search, using sw model

Run on: April 26, 2005, 08:28:02 ; Search time 436 Seconds
(without alignments)
257.970 Million cell updates/sec

Title: US-10-619-906-5
Perfect score: 19
Sequence: 1 aattattgattctgtaggt 19
Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 4390206 seqs, 2959870667 residues

Word size : . 0 8780412

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N_Geneseq_16Dec04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
4: geneseqn2001as:*
5: geneseqn2001bs:*
6: geneseqn2002as:*
7: geneseqn2002bs:*
8: geneseqn2003as:*
9: geneseqn2003bs:*
10: geneseqn2003cs:*
11: geneseqn2003ds:*
12: geneseqn2004as:*
13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	19	100.0	19	12	ADI53692
C 2	19	100.0	458	6	ABK53984 Human hea
C 3	19	100.0	589	6	ABQ59213 Human col
C 4	19	100.0	1413	8	ABX76392 Lung canc
C 5	19	100.0	1413	10	ADF18051 Human mat
C 6	19	100.0	1413	11	ADN39005 Cancer/an
C 7	19	100.0	1413	11	ADN39708 Cancer/an
C 8	19	100.0	1413	11	ADN39709 Cancer/an
C 9	19	100.0	1653	6	ABV78217 Human MMP
C 10	19	100.0	1653	6	ABZ35793 Human MMP
C 11	19	100.0	1653	6	ABX10036 Human MMP
C 12	19	100.0	1653	6	ABL91758 Human pol
C 13	19	100.0	1778	3	AAA35052 Human ade
C 14	19	100.0	1778	3	AAF21174 Human low
C 15	19	100.0	1778	4	AAH28229 Nucleotid
C 16	19	100.0	1778	6	ABL62664 Colon ade
C 17	19	100.0	1778	6	ABL65817 Lung canc
C 18	19	100.0	1778	6	ABL64743 Lung canc
C 19	19	100.0	1778	6	ABL62102 Colon ade
C 20	19	100.0	1778	6	ABL66489 Lung canc

C 21	19	100.0	1778	6	ABN95681	Abn95681 Gene #217
C 22	19	100.0	1778	6	ABK54023	Abk54023 Human hea
C 23	19	100.0	1778	8	ACC51017	Acc51017 Human bla
C 24	19	100.0	1778	8	ABX76137	Abx76137 Lung canc
C 25	19	100.0	1778	8	ACF12895	Acf12895 Human cer
C 26	19	100.0	1778	10	ADD18687	Add18687 Human dis
C 27	19	100.0	1778	10	ADF18049	Adf18049 cDNA enco
C 28	19	100.0	1778	10	ADF74444	Adf74444 Full leng
C 29	19	100.0	1778	10	ACC46771	Acc46771 Human COP
C 30	19	100.0	1778	10	ABZ96868	Abz96868 Human nuc
C 31	19	100.0	1778	11	ABD20717	Abd20717 Human pul
C 32	19	100.0	1778	12	ADI53688	Adi53688 Human mat
C 33	19	100.0	1778	12	ADN05808	Adn05808 Antipsori
C 34	19	100.0	1778	12	ADQ29584	Adq29584 Human col
C 35	19	100.0	1778	13	ADR24908	Adr24908 Breast ca
C 36	19	100.0	1781	8	ABZ20476	Abz20476 Matrix me
C 37	19	100.0	1818	4	AAF81624	Aaf81624 Human mac
C 38	19	100.0	1818	4	AAC64994	Aac64994 Human mac
C 39	19	100.0	1873	12	ADQ23366	Adq23366 Human sof
C 40	19	100.0	1874	3	AAC77981	Aac77981 Human can
C 41	19	100.0	1988	10	ADB47336	Adb47336 Human cDN
C 42	19	100.0	2870	10	ADD29857	Add29857 Human tum
C 43	19	100.0	9137	3	AAA35055	Aaa35055 Human ade
C 44	19	100.0	9137	3	AAF21177	Aaf21177 Human low
C 45	19	100.0	9137	10	ABZ96871	Abz96871 Human nuc

ALIGNMENTS

RESULT 1
ADI53692
ID ADI53692 standard; DNA; 19 BP.
XX
AC ADI53692;

DT 22-APR-2004 (first entry)

XX Human MMP-12 antisense oligonucleotide, SEQ ID 5.

XX Antiinflammatory; Antipsoriatic; Antiasthmatic; Antiarthritic;
KW Respiratory; antisense oligonucleotide; matrix metalloproteinase 12;
KW MMP-12; inflammatory bowel disease; ulcerative colitis; Crohn's disease;
KW rheumatoid arthritis; psoriasis; emphysema; asthma; human; ss.

XX Homo sapiens.
OS Synthetic.

XX WO2004009098-A1.

PD 29-JAN-2004.

XX 17-JUL-2003; 2003WO-SE001223.

PR 18-JUL-2002; 2002SE-00002253.

PR 04-SEP-2002; 2002US-0407680P.

XX (INDE-) INDEX PHARM AB.

XX Dieckmann A, Loeffberg R, Von Stein O, Von Stein P, Good L;

XX WPI; 2004-123288/12.

XX New compound having a sequence targeted to a nucleic acid encoding
PT metalloproteinase 12 (MMP-12), useful for preparing a composition for
PT treating or preventing MMP-12 dependent disorder in a human patient e.g.,
PT asthma or psoriasis.

XX Claim 7; SEQ ID NO 5; 55pp; English.

XX The present invention relates to antisense oligonucleotides (ADI53690-
CC ADI53701) for matrix metalloproteinase 12 (MMP-12; ADI53688 and
CC ADI53689), which specifically hybridise with the nucleic acid encoding

CC MMP-12 and inhibiting the translation of MMP-12 protein. The antisense
CC oligonucleotides are useful for preparing a composition for treating or
CC preventing MMP-12 dependent disorder in a human patient e.g. inflammatory
CC bowel disease, such as ulcerative colitis and Crohn's disease, rheumatoid
CC arthritis, psoriasis, emphysema or asthma.
XX
SQ Sequence 19 BP; 5 A; 1 C; 4 G; 9 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 12; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 1 AATTATTGATTCTGTAGGT 19
|||||

RESULT 2
ABK53984/c
ID ABK53984 standard; cDNA; 458 BP.
XX
AC ABK53984;
XX
DT 05-JUN-2002 (first entry)
XX
DE Human head and neck tumour cDNA, SEQ ID No 179.
XX
KW Human; head and neck cancer; tumour; cytostatic; immunogenic; vaccine;
KW gene; ss.
XX
OS Homo sapiens.
XX
PN WO200212329-A2.
XX
PD 14-FEB-2002.
XX
PF 01-AUG-2001; 2001WO-US024226.
XX
PR 03-AUG-2000; 2000US-0223281P.
PR 16-NOV-2000; 2000US-0249933P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Wang T, Fan L;
XX
DR WPI; 2002-257467/30.
XX
PT Novel polynucleotide encoding head and neck tumor polypeptides, useful in
PT pharmaceutical compositions, e.g. vaccines, for treating head and neck
PT cancers.
XX
PS Claim 1; Page 168-169; 200pp; English.
XX
CC The invention relates to an isolated polynucleotide (I) comprising
CC sequences selected from 273 sequences fully defined in the specification.
CC (I), including its encoded polypeptide (II), an antibody binding to (II),
CC a fusion protein comprising (II) and a T-cell population stimulated by
CC (I) or (II) are useful for stimulating an immune response in a patient
CC and treating head and neck cancer in a patient. An oligonucleotide (III)
CC that hybridises to (I) is useful for determining the presence of cancer
CC in a patient, by obtaining a biological sample from the patient,
CC contacting the sample with (III), detecting in the sample an amount of a
CC polynucleotide that hybridises to the oligonucleotide, and comparing the
CC amount of polynucleotide that hybridises to the oligonucleotides to a
CC predetermined cut-off value. (I) and (II) are useful in pharmaceutical
CC compositions, e.g. vaccines, and other compositions for the diagnosis and
CC treatment of head and neck cancer. ABK53806-ABK54078 represent human head
CC and neck cancer cDNA sequences of the invention
XX
SQ Sequence 458 BP; 151 A; 99 C; 100 G; 108 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 458;
Best Local Similarity 100.0%; Pred. No. 0.34;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 348 AATTATTGATTCTGTAGGT 330
|||||

RESULT 3
ABQ59213/c
ID ABQ59213 standard; cDNA; 589 BP.
XX
AC ABQ59213;
XX
DT 02-AUG-2002 (first entry)
XX
DE Human colon cancer related nucleotide sequence SEQ ID NO:2908.
XX
KW Human; colon cancer; cancer; tissue profiling; forensic; mapping;
KW genetic analysis; diagnostic; antisense therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200229086-A2.
XX
PD 11-APR-2002.
XX
PF 02-OCT-2001; 2001WO-US030732.
XX
PR 02-OCT-2000; 2000US-0237271P.
XX
PA (FARB) BAYER CORP.
XX
PI Burgess C, Astle JH, Carroll E, Catino TJ, Dwivedi P, Molino GA;
PI Thiaglingam A, Lewis ME;
XX
DR WPI; 2002-426115/45.
XX
PT New isolated nucleic acid that is differentially expressed in cancer
PT tissues useful for determining the presence of colon cancer in a cell or
PT tissue type, and in antisense therapy.
XX
PS Claim 1; Fig 1; 796pp; English.
XX
CC ABQ56306 to ABQ60787 represent isolated nucleic acids (I) differentially
CC expressed in cancer tissues. ABB78993 to ABB79004 represent proteins
CC encoded by the ABQ60776 to ABQ60787 nucleic acid sequences. (I) can be
CC used in antisense therapy. An antibody immunoreactive with a polypeptide
CC encoded by (I) is useful for detecting cancer in a patient sample, and
CC for detecting the presence or absence of a polynucleotide encoded by a
CC nucleic acid which hybridises to (I) in a cell. A probe/primer derived
CC from (I) can be used for determining the presence of a nucleic acid which
CC hybridises to (I), and for determining the phenotype of cells in a sample
CC of cells from a patient. (I) is useful for determining the presence of
CC colon cancer in a cell or tissue type, for determining the presence or
CC state of other type of cancer, in antisense therapy, to generate
CC macroarrays on a solid surface, to identify a chromosome on which the
CC corresponding gene resides, and in tissue profiling, forensics, genetic
CC analysis, mapping and diagnostic applications. (I) can be used to raise
CC antibodies, and to screen for peptide analogues and antagonists
XX
SQ Sequence 589 BP; 182 A; 120 C; 134 G; 144 T; 0 U; 9 Other;

Query Match 100.0%; Score 19; DB 6; Length 589;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 419 AATTATTGATTCTGTAGGT 401
|||||

RESULT 4
ABX76392/c

ID XX ABX76392 standard; DNA; 1413 BP.
AC XX ABX76392;
DT XX 02-APR-2003 (first entry)
XX XX Lung cancer-associated polynucleotide #256.
DE XX
XX XX Lung cancer-associated polynucleotide; gene; ds; cytostatic; emphysema;
KW KW antiinflammatory; antiasthmatic; non-small cell lung cancer; atelectasis;
KW KW small cell lung cancer; benign lesion; precancerous lesion; bronchitis;
KW KW chronic obstructive pulmonary disease; hypersensitivity pneumonitis;
KW KW interstitial pulmonary fibrosis; fibrosis; asthma; bronchiectasis.
XX XX
OS OS Unidentified.
XX XX WO200286443-A2.
PN PN 31-OCT-2002.
XX XX
XX XX 18-APR-2002; 2002WO-US012476.
PF PF
XX XX 18-APR-2001; 2001US-0284770P.
PR PR 10-MAY-2001; 2001US-0290492P.
PR PR 09-NOV-2001; 2001US-0339245P.
PR PR 13-NOV-2001; 2001US-0350666P.
PR PR 29-NOV-2001; 2001US-0334370P.
PR PR 12-APR-2002; 2002US-0372246P.
XX XX
XX XX (EOSB-) EOS BIOTECHNOLOGY INC.
PA PA
XX XX
PI PI Aziz N, Murray R;
XX XX
DR DR WPI; 2003-093161/08.
DR DR P-PSDB; ABU56663.
XX XX
PT PT Detecting a lung cancer-associated transcript in a cell from a patient
PT PT for treating lung cancer, by contacting a biological sample from the
PT PT patient with a polynucleotide that exhibits increased or decreased
PT PT expression in lung cancer.
XX XX
PS PS Claim 22; Page 385; 453pp; English.
XX XX
CC CC The invention relates to a method for detecting a lung cancer-associated
CC CC transcript in a cell from a patient, comprising contacting a biological
CC CC sample from the patient with a polynucleotide that selectively hybridises
CC CC to a sequence that is at least 80 % identical to a gene that exhibits
CC CC increased or decreased expression in lung cancer samples. Lung cancer-
CC CC associated polynucleotides and polypeptides are used for identifying a
CC CC compound that modulates a lung cancer-associated polypeptide, for
CC CC inhibiting proliferation of a lung cancer-associated cell to treat lung
CC CC cancer in a patient and for treating a mammal having lung cancer by
CC CC administering a modulatory compound identified. The methods are useful
CC CC for treating lung cancer, such as small cell lung cancer, non-small cell
CC CC lung cancer or other benign or precancerous lesions, e.g. atelectasis,
CC CC emphysema, bronchitis, chronic obstructive pulmonary disease, fibrosis,
CC CC hypersensitivity pneumonitis, interstitial pulmonary fibrosis, asthma and
CC CC bronchiectasis. The genes, polynucleotides and polypeptides are useful
CC CC for diagnostic purposes and as targets for screening for therapeutic
CC CC compounds that modulate lung cancer, such as antibodies. Sequences
CC CC ABX76124-ABX76474 represent lung cancer-associated polynucleotides of the
CC CC invention
XX XX
SQ SQ Sequence 1413 BP; 422 A; 306 C; 289 G; 396 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 8; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCCTAGGT 19
DB 361 AATTATTGATTCCTAGGT 343

RESULT 5
ADF18051/c
ID ADF18051 standard; cDNA; 1413 BP.
XX XX
AC ADF18051;
XX XX
DT 12-FEB-2004 (first entry)
XX XX
DE XX Human matrix metalloproteinase 12 (MMP-12) coding sequence.
XX XX
KW KW anorectic; antidiabetic; immunomodulator; MMP-12 agonist;
KW KW MMP-12 antagonist; MMP-12 inverse agonist; anti-MMP-12 antibody;
KW KW antisense MMP-12; MMP-12 ribozyme; lipid homeostasis modulator;
KW KW glucose homeostasis modulator; insulin homeostasis modulator;
KW KW adipocyte growth modulator; metabolic disorder;
KW KW matrix metalloproteinase 12; MMP-12; translation inhibition; obesity;
KW KW overweight; diabetes; insulin resistance; cachexia; anorexia; gene; ss;
KW KW human.
XX XX
OS OS Homo sapiens.
XX XX
XX XX Location/Qualifiers
FH Key 1..1413
FT CDS /*tag= a
FT /*product= "Human MMP-12"
FT /*note= "Matrix metalloproteinase"
XX XX
PN US2003157110-A1.
XX XX
PD 21-AUG-2003.
XX XX
PF 07-JAN-2003; 2003US-00337632.
XX XX
PR 07-JAN-2002; 2002US-0346354P.
XX XX
PA (MILL-) MILLENNIUM PHARM INC.
XX XX
PI PI An WF, Chen H;
XX XX
DR DR WPI; 2003-897814/82.
DR DR P-PSDB; ADF18050.
XX XX
PT PT Identifying a compound capable of treating a metabolic disorder comprises
PT PT assaying for compounds that modulate matrix metalloproteinase MMP-12
PT PT expression or activity.
XX XX
PS PS Disclosure; SEQ ID NO 3; 38pp; English.
XX XX
CC CC The invention describes a method of identifying a compound capable of
CC CC treating a metabolic disorder comprising assaying the ability of the
CC CC compound to modulate a matrix metalloproteinase 12 (MMP-12) nucleic acid
CC CC expression or MMP-12 polypeptide activity. The compound has anorectic,
CC CC antidiabetic and immunomodulator properties. An antisense oligonucleotide
CC CC or ribozyme targets the MMP-12 transcripts and inhibits translation.
CC CC Alternatively the oligonucleotide forms a triple helix with the promoter
CC CC of the MMP-12 gene and inhibits transcription. The invention is used to
CC CC identify a compound useful for treating a metabolic disorder,
CC CC particularly obesity, overweight, diabetes, insulin resistance, cachexia
CC CC or anorexia. This sequence encodes human matrix metalloproteinase 12 (MMP
CC CC -12).
XX XX
SQ SQ Sequence 1413 BP; 421 A; 306 C; 289 G; 397 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 10; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCCTAGGT 19
DB 361 AATTATTGATTCCTAGGT 343

RESULT 6
ADN39005/c
ID ADN39005 standard; cDNA; 1413 BP.
XX
AC ADN39005;
XX
DT 17-JUN-2004 (first entry)
XX
DE Cancer/angiogenesis/fibrosis-related nucleic acid, SEQ ID NO:323.
XX
KW Human; differential expression; cancer; angiogenic disorder;
KW fibrotic disorder; psoriasis; ischaemia; heart disease; atherosclerosis;
KW inflammatory disease; autoimmune disease;
KW retinal neovascularistaion syndrome; scarring; uterine fibroid;
KW detection; diagnosis; prognosis; drug screening; drug targeting;
KW wound healing; contraception; cytostatic; cardiant; immunomodulatory;
KW vulnerary; gene therapy; vaccine; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003042661-A2.
XX
PD 22-MAY-2003.
XX
PF 13-NOV-2002; 2002WO-US036810.
XX
PR 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.
PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-0355250P.
PR 13-FEB-2002; 2002US-0356714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-0368809P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397775P.
PR 22-JUL-2002; 2002US-0397845P.
PR 09-SEP-2002; 2002US-0409450P.
XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.
XX
PI Afar D, Aziz N, Ginsburg WM, Gish KC, Glynnne R, Hevezi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX
DR WPI; 2003-468649/44.
DR P-PSDB; ADN39006.
XX
PT Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
PT a nucleic acid in a biological sample.
XX
PS Claim 8; SEQ ID NO 323; 1385pp; English.
XX
CC The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence-or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischaemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal

CC neovascularistaion syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a nucleic acid sequence of the invention.
XX
SQ Sequence 1413 BP; 422 A; 306 C; 289 G; 396 T; 0 U; 0 Other;
Query Match 100.0%; Score 19; DB 11; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTCTAGGT 19
Db 361 AATTATTGATTCTCTAGGT 343
RESULT 7
ADN39708/c
ID ADN39708 standard; cDNA; 1413 BP.
XX
AC ADN39708;
XX
DT 17-JUN-2004 (first entry)
XX
DE Cancer/angiogenesis/fibrosis-related nucleic acid, SEQ ID NO:C80.
XX
KW Human; differential expression; cancer; angiogenic disorder;
KW fibrotic disorder; psoriasis; ischaemia; heart disease; atherosclerosis;
KW inflammatory disease; autoimmune disease;
KW retinal neovascularistaion syndrome; scarring; uterine fibroid;
KW detection; diagnosis; prognosis; drug screening; drug targeting;
KW wound healing; contraception; cytostatic; cardiant; immunomodulatory;
KW vulnerary; gene therapy; vaccine; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003042661-A2.
XX
PD 22-MAY-2003.
XX
PF 13-NOV-2002; 2002WO-US036810.
XX
PR 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.
PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-0355250P.
PR 13-FEB-2002; 2002US-0356714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-0368809P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397775P.
PR 22-JUL-2002; 2002US-0397845P.
PR 09-SEP-2002; 2002US-0409450P.
XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.
XX
PI Afar D, Aziz N, Ginsburg WM, Gish KC, Glynnne R, Hevezi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX
DR WPI; 2003-468649/44.
DR P-PSDB; ADN39925.
XX
PT Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
PT a nucleic acid in a biological sample.
XX
PS Claim 8; SEQ ID NO C80; 1385pp; English.

XX The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischaemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularisation syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a nucleic acid sequence of the invention.
XX
SQ Sequence 1413 BP; 422 A; 306 C; 289 G; 396 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 11; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 8
ADN39709/c
ID ADN39709 standard; cDNA; 1413 BP.
XX
AC ADN39709;
XX
DT 17-JUN-2004 (first entry)
XX
DE Cancer/angiogenesis/fibrosis-related nucleic acid, SEQ ID NO:C81.
XX
KW Human; differential expression; cancer; angiogenic disorder;
KW fibrotic disorder; psoriasis; ischaemia; heart disease; atherosclerosis;
KW inflammatory disease; autoimmune disease;
KW retinal neovascularisation syndrome; scarring; uterine fibroid;
KW detection; diagnosis; prognosis; drug screening; drug targeting;
KW wound healing; contraception; cytostatic; cardiant; immunomodulatory;
KW vulneryary; gene therapy; vaccine; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003042661-A2.
XX
PD 22-MAY-2003.
XX
PF 13-NOV-2002; 2002WO-US036810.
XX
PR 13-NOV-2001; 2001US-0350666P.
PR 21-NOV-2001; 2001US-0332464P.
PR 29-NOV-2001; 2001US-0334393P.
PR 03-DEC-2001; 2001US-0335394P.
PR 14-DEC-2001; 2001US-0340376P.
PR 08-JAN-2002; 2002US-0347211P.
PR 10-JAN-2002; 2002US-0347349P.
PR 08-FEB-2002; 2002US-0355250P.
PR 13-FEB-2002; 2002US-0356714P.
PR 20-FEB-2002; 2002US-0359077P.
PR 29-MAR-2002; 2002US-0368809P.
PR 04-APR-2002; 2002US-0370110P.
PR 12-APR-2002; 2002US-0372246P.
PR 05-JUN-2002; 2002US-0386614P.
PR 16-JUL-2002; 2002US-0396839P.
PR 22-JUL-2002; 2002US-0397775P.
PR 22-JUL-2002; 2002US-0397845P.

PR 09-SEP-2002; 2002US-0409450P.
XX
XX (EOSB-) EOS BIOTECHNOLOGY INC.
XX
PI Afar D, Aziz N, Ginsburg WM, Gish KC, Glynn R, Hevezi PA;
PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnik A;
XX
DR WPI; 2003-468649/44.
DR P-PSDB; ADN39926.
XX
PT Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
PT a nucleic acid in a biological sample.
XX
PS Claim 8; SEQ ID NO C81; 1385pp; English.
XX
CC The invention relates to nucleic acids and proteins (ADN38683-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischaemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularisation syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a nucleic acid sequence of the invention.
XX
SQ Sequence 1413 BP; 421 A; 308 C; 288 G; 396 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 11; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 9
ABV78217/c
ID ABV78217 standard; DNA; 1653 BP.
XX
AC ABV78217;
XX
DT 15-NOV-2002 (first entry)
XX
DE Human MMP12 DNA SEQ ID NO 101.
XX
KW RNA inhibition; dsRNA; gene expression inhibitor; oncogene; cytostatic;
KW virucide; protozoacide; gene; ds.
XX
OS Homo sapiens.
XX
PN WO200255693-A2.
XX
PD 18-JUL-2002.
XX
PF 09-JAN-2002; 2002WO-EP000152.
XX
PR 09-JAN-2001; 2001DE-01000586.
PR 26-OCT-2001; 2001DE-01055280.
PR 29-NOV-2001; 2001DE-01058411.
PR 07-DEC-2001; 2001DE-01060151.
XX
PA (RIBO-) RIBOPHARMA AG.
XX

PI Kreutzer R, Limmer S, Rost S, Hadwiger P;
XX WPI; 2002-590671/63.
DR
XX Inhibiting expression of target gene, useful e.g. for inhibiting
PT oncogenes, by administering double-stranded RNA complementary to the
PT target and having an overhang.
XX
XX Claim 10; Page 173; 203pp; German.
XX
CC The invention relates to inhibiting expression of a target gene (I) in a
CC cell by introducing an inhibitory RNA (dsRNAI) having a double-stranded
CC structure of at most 49 consecutive bases. At least part of one strand
CC (as1) of dsRNAI is complementary to (I) and at least one end of dsRNAI
CC has an overhang of 1-4 nucleotides. The method is used to inhibit the
CC expression of a wide range of genes, e.g. oncogenes, cytokine genes etc.
CC in humans, also genes in Plasmodium or in viruses or viroids that are
CC pathogenic for humans, animals or plants. Introducing an overhang into
CC dsRNA greatly increases effectiveness for inhibiting gene expression,
CC both in vivo and in vitro and also increases stability and thus the
CC effective concentration inside the cell. The present sequence is that of
CC a gene related to the invention
XX
SQ Sequence 1653 BP; 410 A; 288 C; 280 G; 374 T; 0 U; 301 Other;

Query Match 100.0%; Score 19; DB 6; Length 1653;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 10
ABZ35793/c
ID ABZ35793 standard; DNA; 1653 BP.
XX
AC ABZ35793;
XX
DT 07-FEB-2003 (first entry)
XX
DE Human MMP12 polynucleotide SEQ ID NO 101.
XX
KW Double stranded RNA; dsRNA; RNAi; RNA inhibition; cytostatic; virucide;
KW protozoacide; gene expression; antisense; tumour; infection; Plasmodium;
KW virus; viroid; anti-GFP; human; HIV; human immunodeficiency virus;
KW Hepatitis C virus; human papilloma virus; gene; ds.
XX
OS Homo sapiens.
XX
PN DE10100588-A1.
XX
PD 18-JUL-2002.
XX
PF 09-JAN-2001; 2001DE-01000588.
XX
PR 09-JAN-2001; 2001DE-01000588.
XX
PA (RIBO-) RIBOPHARMA AG.
XX
PI Kreutzer R, Limmer S, Rost S, Hadwiger P;
XX
DR WPI; 2002-683450/74.
XX
XX Inhibiting expression of target genes, useful e.g. for treating tumors,
PT by introducing into cells two double-stranded RNAs that are complementary
PT to the target.
XX
XX Claim 13; Page 70; 100pp; German.
PS
XX The invention relates to inhibiting expression of a target gene in a cell
CC by introducing at least two oligoribonucleotides (dsRNAI and II), both

CC with a double-stranded (ds) structure of at most 49 sequential nucleotide
CC pairs. At least part of one strand (S1, S2) of the ds structures in each
CC of dsRNAI and II are complementary to regions in the target gene. The
CC method uses antisense inhibition of gene expression using double stranded
CC RNA inhibition (RNAi). The method is particularly used to treat tumours
CC or infections, especially by Plasmodium or viruses/viroids (pathogenic on
CC humans, animals or plants). The method provides more effective inhibition
CC of expression than known methods using a single dsRNA, even at very low
CC concentrations. When dsRNA has at least one unpaired nucleotide at the
CC end, stability (and thus effective concentration in the cell) is improved
CC and efficiency can be increased further by pretreating the cells with
CC interferon. The present sequence is that of a target DNA of the invention
XX
SQ Sequence 1653 BP; 410 A; 288 C; 280 G; 374 T; 0 U; 301 Other;

Query Match 100.0%; Score 19; DB 6; Length 1653;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 11
ABX10036/c
ID ABX10036 standard; DNA; 1653 BP.
XX
AC ABX10036;
XX
DT 23-JAN-2003 (first entry)
XX
DE Human MMP12 DNA fragment SEQ ID 101.
XX
KW Oligoribonucleotide; interferon; oncogene; cytokine; Id; developmental;
KW prion; inhibition; human; ds.
XX
OS Homo sapiens.
XX
PN DE10100587-Cl.
XX
PD 21-NOV-2002.
XX
PF 09-JAN-2001; 2001DE-01000587.
XX
PR 09-JAN-2001; 2001DE-01000587.
XX
PA (RIBO-) RIBOPHARMA AG.
XX
PI Kreutzer R, Limmer S, Rost S, Hadwiger P;
XX
DR WPI; 2002-742209/81.
XX
PT Inhibiting expression of target genes, e.g. oncogenes, in cells, by
PT introduction of complementary double-stranded oligoribonucleotide, after
PT treating the cell with interferon.
XX
PS Disclosure; Page 75; 98pp; German.
XX
CC This invention describes a novel method for inhibiting expression of a
CC target gene by introducing into the cell that contains the target gene at
CC least one oligoribonucleotide (dsRNAI) that has a double-stranded (ds)
CC structure of not more than 49 consecutive nucleotides (nt), where at
CC least a segment of one strand of the ds structure is complementary with
CC the target gene and the cells are treated with interferon before
CC introduction of dsRNAI. The method is used to inhibit expression of
CC target genes, particularly oncogenes, cytokine genes, Id (not defined)
CC protein genes; developmental or prion genes, or genes expressed in
CC pathogenic organisms (particularly plasmodia) or in viruses or viroids
CC (pathogenic in humans, animals or plants). Treating the cells with
CC interferon greatly increases the extent to which dsRNA can inhibit
CC expression of the target genes, and the effect is even greater when dsRNA
CC are modified to increase their stability. ABX09936-ABX10075 represent

CC gene fragments used to illustrate the method of the invention

XX SQ Sequence 1653 BP; 410 A; 288 C; 280 G; 374 T; 0 U; 301 Other;

Query Match 100.0%; Score 19; DB 6; Length 1653;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19

Db 361 AATTATTGATTCTGTAGGT 343

RESULT 12

ABL91758/c

ID ABL91758 standard; DNA; 1653 BP.

XX AC ABL91758;

XX DT 28-MAY-2002 (first entry)

XX DE Human polynucleotide SEQ ID NO 101.

XX KW Human; HIV; HCV; gene expression; oligoribonucleotide; tumour; pathogen;

XX KW Plasmodium; virus; viroid; cytokine; prion; antisense oligonucleotide;

XX KW cytosstatic; virucide; protozoacide; antibacterial; ds.

XX OS Homo sapiens.

XX PN DE10100586-C1.

XX PD 11-APR-2002.

XX PF 09-JAN-2001; 2001DE-01000586.

XX PR 09-JAN-2001; 2001DE-01000586.

XX PA (RIBO-) RIBOPHARMA AG.

XX PI Kreutzer R, Limmer S, Rost S, Hadwiger P;

XX DR WPI; 2002-270454/32.

XX PT Inhibiting gene expression in cells, useful for e.g. treating tumors, by

XX PT introducing double-stranded complementary oligorNA having unpaired

XX PT terminal bases.

XX PS Claim 13; Page 74-75; 104pp; German.

XX CC The invention relates to a method for inhibiting expression of a target

CC gene (ABL91658-ABL91797) in a cell by introducing at least one

CC oligoribonucleotide that has a double-stranded structure consisting of at

CC most 49 sequential nucleotide pairs, with at least part of one strand

CC complementary with the target gene and has at least one end a single-

CC stranded segment of 1-4 nt. The method provides oligoribonucleotides for

CC antisense inhibition of gene expression useful e.g. for treating tumours

CC but the oligoribonucleotides may also be directed against genes present

CC in pathogens (e.g. Plasmodium or viruses/viroids, pathogenic on humans,

CC animals or plants) or against cytokine, Id, developmental or prion genes.

CC The method provides more effective inhibition of gene expression than use

CC of known oligonucleotides, probably because the unpaired overhang

CC increases stability and thus intracellular concentration

XX SQ Sequence 1653 BP; 410 A; 288 C; 280 G; 374 T; 0 U; 301 Other;

Query Match 100.0%; Score 19; DB 6; Length 1653;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19

Db 361 AATTATTGATTCTGTAGGT 343

RESULT 13

AAA35052/c

ID AAA35052 standard; DNA; 1778 BP.

XX AC AAA35052;

XX DT 28-JUL-2000 (first entry)

XX DE Human adenosine receptor related polynucleotide SEQ ID NO:2741.

XX KW Human; adenosine receptor; low adenosine antisense oligonucleotide;

XX KW phosphorothioate; impaired respiration; inflammation; allergy;

XX KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;

XX KW antiallergic; antiasthmatic; cytosstatic; analgesic; impaired airway;

XX KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;

XX KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;

XX KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;

XX KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.

XX OS Homo sapiens.

XX PN WO200009525-A2.

XX PD 24-FEB-2000.

XX PF 03-AUG-1999; 99WO-US017712.

XX PR 03-AUG-1998; 98US-0095212P.

XX PA (UYEC-) UNIV EAST CAROLINA.

XX PI Nyce JW;

XX DR WPI; 2000-205971/18.

XX PT New antisense oligonucleotides useful for treating e.g. pulmonary

PT vasoconstriction, inflammation, allergies, asthma, hypertension,

PT bronchitis, emphysema, respiratory distress syndrome, ischemia or

PT cancers.

XX PS Disclosure; Page 1016-1017; 1343pp; English.

XX CC The present invention describes a new composition comprising an antisense

CC oligonucleotide (ON) with low adenosine (up to 15%), which targets

CC nucleic acids involved in bronchoconstriction, allergies, and/or

CC inflammation. The ON can have antiinflammatory, antiallergic,

CC antiasthmatic, cytosstatic and analgesic activities. The compositions are

CC useful for the treatment of diseases associated with inflammation,

CC impaired airways, including lung disease and diseases whose secondary

CC effects afflict the lungs of a subject. They can be used for treating

CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,

CC impeded respiration, respiratory distress syndrome, pain, cystic

CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive

CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,

CC carcinomas, and cancers which may metastasise to the lungs, including

CC breast and prostate cancer. The reduction of the adenosine content of the

CC ONs reduces side effects. The A-containing ONs break down with the

CC release of deoxyadenosine which activates adenosine receptors causing

CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the

CC nucleotide sequences given in the sequence listing from the present

CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185

CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ

CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to

CC AAA33992) are specifically claimed ONs from the present invention. N.B.

CC Sequences given in the disclosure of the present invention do not match

CC up with their corresponding SEQ ID NO: sequences given in the sequence

CC listing

XX SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 3; Length 1778;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||

Db 373 AATTATTGATTCTGTAGGT 355

RESULT 14
AAF211174/c
ID AAF211174 standard; DNA; 1778 BP.
XX
AC AAF211174;
XX
DT 14-MAR-2001 (first entry)
XX
DE Human low adenosine antisense oligonucleotide related sequence #2741.
XX
KW Low adenosine antisense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200062736-A2.
XX
PD 26-OCT-2000.
XX
PF 24-MAR-2000; 2000WO-US008020.
XX
PR 06-APR-1999; 99US-0127958P.
XX
PA (UYEC-) UNIV EAST CAROLINA.
PA (NYCE/) NYCE J W.
PI Nyce JW;
XX
DR WPI; 2000-679539/66.
XX
PT Low adenosine (A) content antisense oligonucleotides which do not trigger
PT adenosine receptors during metabolism, useful e.g. for treating cancers
PT and respiratory obstructions.
XX
PS Disclosure; Page 1094-1095; 1592pp; English.
XX
CC The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'Universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or
CC surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,

CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 3; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||

Db 373 AATTATTGATTCTGTAGGT 355

RESULT 15
AAH28229/c
ID AAH28229 standard; cDNA; 1778 BP.
XX
AC AAH28229;
XX
DT 05-SEP-2001 (first entry)
XX
DE Nucleotide sequence of matrix metalloproteinase-12.
XX
KW Growth factor; protein inhibitor; protease; damaged tissue;
KW platelet-derived growth factor; PDGF; fibroblast growth factor; FGF;
KW connective tissue derived growth factor; CTGF; chrysalin; VEGF;
KW keratinocyte-derived growth factor; KGF; epidermal growth factor; EGF;
KW transforming growth factor-beta; TGF-beta; matrix metalloproteinase; MMP;
KW granulocyte macrophage colony stimulating factor; GM-CSF; uPA;
KW vascular endothelial growth factor; urokinase plasminogen activator;
KW dermal ulcer; wound; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 13..1425
FT /*tag= a
FT /product= "MMP-12"

PN WO200149309-A2.
XX
PD 12-JUL-2001.
XX
PF 21-DEC-2000; 2000WO-IB001935.
XX
PR 29-DEC-1999; 99GB-00030768.
XX
PA (PFIZ) PFIZER LTD.
PA (PFIZ) PFIZER INC.
XX
PI Davies MJ, Huggins JP, McIntosh FS, Occleston NL;
XX
DR WPI; 2001-418351/44.
DR P-PSDB; AAB84614.
XX
PT Composition for the treatment of damaged tissue i.e. chronic wounds and
PT dermal ulcers comprises an inhibitor agent i.e. a protease and a growth
PT factor.
XX
PS Disclosure; Page 560-561; 572pp; English.
XX
CC The specification describes a pharmaceutical composition, comprising a
CC growth factor, an inhibitor agent, i.e. a protease. The inhibitor agent
CC inhibits the action of at least one specific adverse protein, i.e. a
CC protease, that is upregulated in a damaged tissue such as a wound
CC environment. Growth factors which are included in the composition of the
CC invention are platelet-derived growth factor (PDGF), fibroblast growth

CC factor (FGF), connective tissue derived growth factor (CTGF),
CC keratinocyte-derived growth factor (KGF), transforming growth factor-beta
CC (TGF-beta), granulocyte macrophage colony stimulating factor (GM-CSF),
CC epidermal growth factor (EGF), vascular endothelial growth factor (VEGF),
CC and chrysalin. Inhibitors which are included in the composition of the
CC invention include inhibitors of urokinase-type plasminogen activator
CC (uPA) and matrix metalloproteinase (MMP). The composition is useful for
CC the treatment of chronic damaged tissue, i.e. wounds and dermal ulcers.
CC The present sequence encodes a human MMP-12, and is used to produce the
CC composition of the invention

XX SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 4; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 16
ABL62664/c
ID ABL62664 standard; DNA; 1778 BP.

XX ABL62664;
XX
DT 15-MAY-2002 (first entry)
XX
DE Colon adenocarcinoma related gene sequence SEQ ID NO:1001.

XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
XX gene; ds.

XX Homo sapiens.
XX WO200194629-A2.

PN 13-DEC-2001.

PD 30-MAY-2001; 2001WO-US010838.

XX 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236034P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 29-SEP-2000; 2000US-0236842P.

PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.
PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.
PR 02-OCT-2000; 2000US-0237316P.
PR 03-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.

XX (AVAL-) AVALON PHARM.

XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI Soppet DR, Weaver Z;
XX WPI; 2002-188264/24.

XX Screening for anti-neoplastic agent involves exposing cells to a chemical
PT agent to be tested for anti-neoplastic activity, and determining a change
PT in expression of a gene of a signature gene set.

PS Claim 1; SEQ ID NO 1001; 44pp; English.

XX The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening an
CC anti-neoplastic agent, and can be used for producing a product which is
CC the data collected with respect to the anti-neoplastic agent as a result
CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,
CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's
CC tumour

XX SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 17
ABL65817/c
ID ABL65817 standard; DNA; 1778 BP.

XX ABL65817;

XX 15-MAY-2002 (first entry)

XX Lung cancer related gene sequence SEQ ID NO:4154.

XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
XX gene; ds.

XX Homo sapiens.

XX WO200194629-A2.
PN 13-DEC-2001.
XX 30-MAY-2001; 2001WO-US010838.
XX 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236034P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 29-SEP-2000; 2000US-0236842P.
PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.
PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.
PR 02-OCT-2000; 2000US-0237316P.
PR 03-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.
XX (AVAL-) AVALON PHARM.
PA Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
XX Soppet DR, Weaver Z;
PI WPI; 2002-188264/24.
XX Screening for anti-neoplastic agent involves exposing cells to a chemical
PT agent to be tested for anti-neoplastic activity, and determining a change
PT in expression of a gene of a signature gene set.
XX Claim 1; SEQ ID NO 4154; 44pp; English.
XX The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening an
CC anti-neoplastic agent, and can be used for producing a product which is
CC the data collected with respect to the anti-neoplastic agent as a result

CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,
CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's
CC tumour
XX Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;
SQ Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355
RESULT 18
ABL64743/C
ID ABL64743 standard; DNA; 1778 BP.
XX ABL64743;
AC 15-MAY-2002 (first entry)
XX Lung cancer related gene sequence SEQ ID NO:3080.
DT Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
XX stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW gene; ds.
XX Homo sapiens.
OS WO200194629-A2.
XX 13-DEC-2001.
PD 30-MAY-2001; 2001WO-US010838.
PF 05-JUN-2000; 2000US-0209473P.
XX 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236034P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 29-SEP-2000; 2000US-0236842P.
PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.

PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.
PR 02-OCT-2000; 2000US-0237316P.
PR 03-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.
XX
PA (AVAL-) AVALON PHARM.
XX
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI Soppet DR, Weaver Z;
XX
DR WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a chemical
PT agent to be tested for anti-neoplastic activity, and determining a change
PT in expression of a gene of a signature gene set.
XX
PS Claim 1; SEQ ID NO 3080; 44pp; English.
XX
CC The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening an
CC anti-neoplastic agent, and can be used for producing a product which is
CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,
CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's
CC tumour
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. NO. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCGTAGGT 19
Db 373 AATTATTGATTCGTAGGT 355

RESULT 19
ABL62102/c
ID ABL62102 standard; DNA; 1778 BP.
XX
AC ABL62102;
XX
DT 15-MAY-2002 (first entry)
XX
DE Colon adenocarcinoma related gene sequence SEQ ID NO:439.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN WO200194629-A2.
XX

PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US010838.
XX
PR 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236034P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 29-SEP-2000; 2000US-0236842P.
PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.
PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.
PR 02-OCT-2000; 2000US-0237316P.
PR 03-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.
XX
PA (AVAL-) AVALON PHARM.
XX
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI Soppet DR, Weaver Z;
XX
DR WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a chemical
PT agent to be tested for anti-neoplastic activity, and determining a change
PT in expression of a gene of a signature gene set.
XX
PS Claim 1; SEQ ID NO 439; 44pp; English.
XX
CC The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening an
CC anti-neoplastic agent, and can be used for producing a product which is
CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,

CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's
CC tumour
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
PI ||||||||||||||||
PI 373 AATTATTGATTCTGTAGGT 355
XX
Db

RESULT 20
ABL66489/c
ID ABL66489 standard; DNA; 1778 BP.
XX
AC ABL66489;
XX
DT 15-MAY-2002 (first entry)
XX
DE Lung cancer related gene sequence SEQ ID NO:4826.
DE
XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN WO200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US010838.
XX
PR 05-JUN-2000; 2000US-0209473P.
PR 05-JUN-2000; 2000US-0209531P.
PR 18-SEP-2000; 2000US-0233133P.
PR 18-SEP-2000; 2000US-0233617P.
PR 20-SEP-2000; 2000US-0234009P.
PR 20-SEP-2000; 2000US-0234034P.
PR 20-SEP-2000; 2000US-0234052P.
PR 22-SEP-2000; 2000US-0234509P.
PR 22-SEP-2000; 2000US-0234567P.
PR 25-SEP-2000; 2000US-0234923P.
PR 25-SEP-2000; 2000US-0234924P.
PR 25-SEP-2000; 2000US-0235077P.
PR 25-SEP-2000; 2000US-0235082P.
PR 25-SEP-2000; 2000US-0235134P.
PR 25-SEP-2000; 2000US-0235280P.
PR 26-SEP-2000; 2000US-0235637P.
PR 26-SEP-2000; 2000US-0235638P.
PR 27-SEP-2000; 2000US-0235711P.
PR 27-SEP-2000; 2000US-0235720P.
PR 27-SEP-2000; 2000US-0235840P.
PR 27-SEP-2000; 2000US-0235863P.
PR 28-SEP-2000; 2000US-0236028P.
PR 28-SEP-2000; 2000US-0236032P.
PR 28-SEP-2000; 2000US-0236033P.
PR 28-SEP-2000; 2000US-0236034P.
PR 28-SEP-2000; 2000US-0236109P.
PR 28-SEP-2000; 2000US-0236111P.
PR 29-SEP-2000; 2000US-0236842P.
PR 29-SEP-2000; 2000US-0236891P.
PR 02-OCT-2000; 2000US-0237172P.
PR 02-OCT-2000; 2000US-0237173P.
PR 02-OCT-2000; 2000US-0237278P.
PR 02-OCT-2000; 2000US-0237294P.
PR 02-OCT-2000; 2000US-0237295P.

PR 02-OCT-2000; 2000US-0237316P.
PR 03-OCT-2000; 2000US-0237425P.
PR 03-OCT-2000; 2000US-0237598P.
PR 03-OCT-2000; 2000US-0237604P.
PR 03-OCT-2000; 2000US-0237606P.
PR 03-OCT-2000; 2000US-0237608P.
PR 01-NOV-2000; 2000US-0244867P.
PR 01-NOV-2000; 2000US-0245084P.
XX
XX (AVAL-) AVALON PHARM.
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI Soppet DR, Weaver Z;
XX
DR WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a chemical
PT agent to be tested for anti-neoplastic activity, and determining a change
PT in expression of a gene of a signature gene set.
XX
PS Claim 1; SEQ ID NO 4826; 44pp; English.
XX
CC The present invention describes a method (M1) for screening for an anti-
CC neoplastic agent. The method involves exposing cells to a chemical agent
CC to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening an
CC anti-neoplastic agent, and can be used for producing a product which is
CC the data collected with respect to the anti-neoplastic agent as a result
CC of M1, and the data is sufficient to convey the chemical structure and/or
CC properties of the agent. M1 can be used in the treatment of cancer such
CC as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,
CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's
CC tumour
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
PI ||||||||||||||||
PI 373 AATTATTGATTCTGTAGGT 355
Db

RESULT 21
ABN95681/c
ID ABN95681 standard; DNA; 1778 BP.
XX
AC ABN95681;
XX
DT 13-AUG-2002 (first entry)
XX
DE Gene #2179 used to diagnose liver cancer.
XX
KW Gene; liver cancer; ds; hepatocellular carcinoma; hepatotropic;
KW metastatic liver tumour; cytostatic; expression profile; disease state;
KW disease progression; drug toxicity; drug efficacy; drug metabolism.
XX
OS Homo sapiens.
XX
PN WO200229103-A2.
XX
PD 11-APR-2002.
XX
PF 02-OCT-2001; 2001WO-US030589.
XX

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PR 02-OCT-2000; 2000US-0237054P.
XX (GENE-) GENE LOGIC INC.
XX Horne D, Alvares C, Peres-Da-Silva S, Vockley JG;
XX WPI; 2002-426119/45.
DR Diagnosing and detecting the progression of liver cancer, hepatocellular
XX carcinoma or metastatic liver tumor in a patient, involves detecting the
PT level of expression of two or more genes in a liver tissue sample.
PT
XX Claim 1; SEQ ID NO 2179; 298pp; English.
PS
XX The invention relates to a novel method for diagnosing and detecting the
CC progression of liver cancer, hepatocellular carcinoma or metastatic liver
CC tumour in a patient, and differentiating metastatic liver cancer from
CC hepatocellular carcinoma in a patient, involving detecting the level of
CC expression of two or more genes represented in ABN93503-ABN97455 in a
CC tissue sample. The method of the invention has hepatotropic, and
CC cytostatic activity. The method is useful for diagnosing and detecting
CC the progression of liver cancer, hepatocellular carcinoma and metastatic
CC liver carcinoma in a patient. The method is useful for identifying
CC expression profiles which serve as useful diagnostic markers as well as
CC markers that can be used to monitor disease states, disease progression,
CC drug toxicity, drug efficacy and drug metabolism. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db |||||
373 AATTATTGATTCTGTAGGT 355

RESULT 22
ABK54023/c
ID ABK54023 standard; cDNA; 1778 BP.
XX
AC ABK54023;
XX
XX 05-JUN-2002 (first entry)
DT
XX Human head and neck tumour cDNA, SEQ ID NO 218.
DE
XX Human; head and neck cancer; tumour; cytostatic; immunogenic; vaccine;
KW gene; ss.
KW
XX Homo sapiens.
OS
XX WO200212329-A2.
XX
XX 14-FEB-2002.
PD
XX
XX 01-AUG-2001; 2001WO-US024226.
PF
XX
XX 03-AUG-2000; 2000US-0223281P.
PR
XX 16-NOV-2000; 2000US-0249933P.
XX
XX (CORI-) CORIXA CORP.
PA
XX Wang T, Fan L;
XX
XX WPI; 2002-257467/30.
DR
XX P-PSDB; AAU91061.
DR
XX Novel polynucleotide encoding head and neck tumor polypeptides, useful in
PT
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PT pharmaceutical compositions, e.g. vaccines, for treating head and neck
PT cancers.
XX Claim 1; Page 180-181; 200pp; English.
XX
XX The invention relates to an isolated polynucleotide (I) comprising
CC sequences selected from 273 sequences fully defined in the specification.
CC (I), including its encoded polypeptide (II), an antibody binding to (II),
CC a fusion protein comprising (II) and a T-cell population stimulated by
CC (I) or (II) are useful for stimulating an immune response in a patient
CC and treating head and neck cancer in a patient. An oligonucleotide (III)
CC that hybridises to (I) is useful for determining the presence of cancer
CC in a patient, by obtaining a biological sample from the patient,
CC contacting the sample with (III), detecting in the sample an amount of a
CC polynucleotide that hybridises to the oligonucleotide, and comparing the
CC amount of polynucleotide that hybridises to the oligonucleotides to a
CC predetermined cut-off value. (I) and (II) are useful in pharmaceutical
CC compositions, e.g. vaccines, and other compositions for the diagnosis and
CC treatment of head and neck cancer. ABK53806-ABK54078 represent human head
CC and neck cancer cDNA sequences of the invention
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db |||||
373 AATTATTGATTCTGTAGGT 355

RESULT 23
ACC51017/c
ID ACC51017 standard; cDNA; 1778 BP.
XX
XX ACC51017;
XX
XX 12-JUN-2003 (first entry)
DT
XX Human bladder cancer associated cDNA sequence SEQ ID NO:124.
DE
XX Human; bladder cancer; cytostatic; gene therapy; vaccine; gene; ss.
KW
XX Homo sapiens.
XX
XX WO2003003906-A2.
XX
XX 16-JAN-2003.
PD
XX
XX 03-JUL-2002; 2002WO-US021338.
PF
XX
XX 03-JUL-2001; 2001US-0302814P.
PR
XX 03-AUG-2001; 2001US-0310099P.
PR
XX 08-NOV-2001; 2001US-0343705P.
PR
XX 13-NOV-2001; 2001US-0350666P.
PR
XX 12-APR-2002; 2002US-0372246P.
XX
XX (EOSB-) EOS BIOTECHNOLOGY INC.
PA
XX Mack DH, Aziz N;
XX
XX WPI; 2003-201532/19.
DR
XX P-PSDB; ABR48203.
DR
XX
XX Detecting a bladder cancer-associated transcript in a cell from a
PT patient, comprises contacting a biological sample from the patient with a
PT bladder cancer-associated polynucleotide or antibody.
XX
XX Claim 6; Page 274-275; 307pp; English.
PS
XX The present invention describes a method for detecting a bladder cancer-
CC associated transcript in a cell from a patient. The method comprises
```

CC contacting a biological sample from the patient with a polynucleotide
CC that selectively hybridises to a sequence that is 80 % identical to a
CC table of sequences (see ACC50951 to ACC51059). ACC50951 to ACC51059
CC encode the human bladder cancer-associated proteins given in ABR48146 to
CC ABR48242). Bladder cancer-associated sequences from the present invention
CC have cytostatic activities, and can be used in antisense gene therapy and
CC in vaccine production. The method can be used for detecting a bladder
CC cancer-associated transcript in a cell from a patient. The method is
CC useful in diagnosing or treating bladder cancer and in screening for
CC compounds that modulate bladder cancer, such as hormones or antibodies.
CC The nucleic acid molecules from the present invention may be used in
CC various screening and diagnostic methods, and for gene therapy, vaccine
CC and/or antisense/inhibition applications
XX
SQ Sequence 1778 BP; 549 A; 357 C; 337 G; 535 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 8; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 24
ABX76137/c
ID ABX76137 standard; DNA; 1778 BP.

XX AC ABX76137;
XX
DT 02-APR-2003 (first entry)
XX
DE Lung cancer-associated polynucleotide #14.

XX Lung cancer-associated polynucleotide; gene; ds; cytostatic; emphysema;
KW antiinflammatory; antiasthmatic; non-small cell lung cancer; atelectasis;
KW small cell lung cancer; benign lesion; precancerous lesion; bronchitis;
KW chronic obstructive pulmonary disease; hypersensitivity pneumonitis;
KW interstitial pulmonary fibrosis; fibrosis; asthma; bronchiectasis.

XX Unidentified.
OS
XX WO200286443-A2.
PN
XX 31-OCT-2002.
PD
XX 18-APR-2002; 2002WO-US012476.
PF
XX 18-APR-2001; 2001US-0284770P.
PR 10-MAY-2001; 2001US-0290492P.
PR 09-NOV-2001; 2001US-0339245P.
PR 13-NOV-2001; 2001US-0350666P.
PR 29-NOV-2001; 2001US-0334370P.
PR 12-APR-2002; 2002US-0372246P.
XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.

XX Aziz N, Murray R;
PI
XX WPI; 2003-093161/08.
DR P-PSDB; ABU56421.

PT Detecting a lung cancer-associated transcript in a cell from a patient
PT for treating lung cancer, by contacting a biological sample from the
PT patient with a polynucleotide that exhibits increased or decreased
PT expression in lung cancer.

XX Claim 22; Page 198; 453pp; English.

XX The invention relates to a method for detecting a lung cancer-associated
CC transcript in a cell from a patient, comprising contacting a biological
CC sample from the patient with a polynucleotide that selectively hybridises

CC to a sequence that is at least 80 % identical to a gene that exhibits
CC increased or decreased expression in lung cancer samples. Lung cancer-
CC associated polynucleotides and polypeptides are used for identifying a
CC compound that modulates a lung cancer-associated polypeptide, for
CC inhibiting proliferation of a lung cancer-associated cell to treat lung
CC cancer in a patient and for treating a mammal having lung cancer by
CC administering a modulatory compound identified. The methods are useful
CC for treating lung cancer, such as small cell lung cancer, non-small cell
CC lung cancer or other benign or precancerous lesions, e.g. atelectasis,
CC emphysema, bronchitis, chronic obstructive pulmonary disease, fibrosis,
CC hypersensitivity pneumonitis, interstitial pulmonary fibrosis, asthma and
CC bronchiectasis. The genes, polynucleotides and polypeptides are useful
CC for diagnostic purposes and as targets for screening for therapeutic
CC compounds that modulate lung cancer, such as antibodies. Sequences
CC ABX76124-ABX76474 represent lung cancer-associated polynucleotides of the
CC invention

SQ Sequence 1778 BP; 549 A; 357 C; 337 G; 535 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 8; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 25
ACF12895/c
ID ACF12895 standard; cDNA; 1778 BP.

XX ACF12895;
AC
XX 10-SEP-2003 (first entry)
DT
XX Human cervical cancer cell marker protein SEQ ID NO:134.

DE Human cervical cancer; cervical cancer marker; cancer therapy;
XX Human; cervical cancer; gene therapy; vaccine; gene; ss.
KW detection; gene therapy; vaccine; gene; ss.

XX Homo sapiens.
OS
XX WO2002101075-A2.
PN
XX 19-DEC-2002.
PD
XX 12-JUN-2002; 2002WO-US018638.
PF
XX 13-JUN-2001; 2001US-0298155P.
PR 13-JUN-2001; 2001US-0298159P.
PR 14-NOV-2001; 2001US-0335936P.
XX
PA (MILL-) MILLENNIUM PHARM INC.

XX Schlegel R, Chen Y, Zhao X, Monahan JE, Kamatkar S;
PI Gannavarapu M, Glatt K, Hoersch S;
PI
XX WPI; 2003-156967/15.
DR P-PSDB; ABR92113.

XX New isolated nucleic acid molecule useful for detecting, characterizing,
PT preventing and treating human cervical cancers, in various prognostic and
PT diagnostic assays, in pharmacogenomics and in monitoring clinical trials.

XX Claim 4; Page 288; 386pp; English.

XX ACF12828 to ACF12947 encode the human cervical cancer marker proteins (I)
CC given in ABR92047 to ABR92164. A higher level of expression of (I) than
CC normal indicates the presence of cervical cancer. Also described: (1) a
CC vector (II) containing (I); (2) a host cell (III) containing (I); and (3)
CC assessing (MI) whether a patient is afflicted with cervical cancer,
CC comprising comparing the level of expression of a marker in a patient's

CC sample, and the normal level of expression of the marker in a control non
CC -cervical cancer sample, where a significant increase in the level of
CC expression of the marker in the patient's sample relative to that in the
CC control sample is an indication that the patient is afflicted with
CC cervical cancer. (I) has cytostatic activity, and can be used in gene
CC therapy and in vaccines. (I) is useful in detecting, characterising,
CC preventing and treating human cervical cancers. (I) may also be used in
CC various prognostic and diagnostic assays, pharmacogenomics and in
CC monitoring clinical trials

SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;
Query Match 100.0%; Score 19; DB 8; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 26

ADD18687/c

ID ADD18687 standard; DNA; 1778 BP.

XX

AC ADD18687;

XX

DT 15-JAN-2004 (first entry)

XX

DE Human disease related protein DNA sequence SeqID118.

XX

KW human; disease state; cytostatic; antiinflammatory; ophthalmological;

KW antiarteriosclerotic; vulnery; gene therapy;

KW hypoxia-regulated condition; tumorigenesis; angiogenesis; apoptosis;

KW inflammation; erythropoiesis; glycolysis; gluconeogenesis;

KW glucose transport; catecholamine synthesis; iron transport;

KW nitric oxide synthesis; cancer; ischaemic condition; reperfusion injury;

KW retinopathy; neonatal stress; pre-eclampsia; atherosclerosis;

KW inflammatory condition; wound healing; gene; ds.

XX

OS Homo sapiens.

XX

PN WO2003018621-A2.

XX

PD 06-MAR-2003.

XX

PF 23-AUG-2002; 2002WO-GB003892.

XX

PR 23-AUG-2001; 2001GB-00020558.

XX

PR 05-OCT-2001; 2001GB-00024037.

XX

PA (OXFO-) OXFORD BIOMEDICA UK LTD.

XX

PI Kingsman SM, White J, Ward NR, Harris RA, Naylor S, Mundy CR;

XX

DR WPI; 2003-290046/28.

DR P-PSDB; ADD18686.

XX

PT New substantially purified polypeptide, useful for diagnosing or treating
PT a hypoxia-regulated condition, such as cancer, ischemia, reperfusion
PT injury, retinopathy, pre-eclampsia, atherosclerosis, inflammation, or
PT wound healing.

XX Claim 27; SEQ ID NO 118; 424pp; English.

PS

XX

CC This invention relates to novel human genes and gene product which are
CC implicated in certain disease states. Compounds which modulate the
CC proteins of the invention may have cytostatic, antiinflammatory, the
CC ophthalmological, antiarteriosclerotic or vulnery activities. The
CC sequences of the invention may be useful for gene therapy. The invention
CC may be useful for diagnosing or treating a hypoxia-regulated condition,
CC such as tumorigenesis, angiogenesis, apoptosis, inflammation,
CC erythropoiesis, or the biological response to hypoxia conditions

CC including processes such as glycolysis, gluconeogenesis, glucose
CC transportation, catecholamine synthesis, iron transport or nitric oxide
CC synthesis. The disease includes cancer, ischaemic conditions, reperfusion
CC injury, retinopathy, neonatal stress, pre-eclampsia, atherosclerosis,
CC inflammatory conditions or wound healing. The present sequence is that of
CC a disease related protein encoding DNA sequence of the invention.

XX Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

SQ Query Match 100.0%; Score 19; DB 10; Length 1778;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19

Db 373 AATTATTGATTCTGTAGGT 355

RESULT 27

ADF18049/c

ID ADF18049 standard; cDNA; 1778 BP.

XX

AC ADF18049;

XX

DT 12-FEB-2004 (first entry)

XX

DE cDNA encoding human matrix metalloproteinase 12 (MMP-12).

XX

KW anorectic; antidiabetic; immunomodulator; MMP-12 agonist;

KW MMP-12 antagonist; MMP-12 inverse agonist; anti-MMP-12 antibody;

KW antisense MMP-12; MMP-12 ribozyme; lipid homeostasis modulator;

KW glucose homeostasis modulator; insulin homeostasis modulator;

KW adipocyte growth modulator; metabolic disorder;

KW matrix metalloproteinase 12; MMP-12; translation inhibition; obesity;

KW overweight; diabetes; insulin resistance; cachexia; anorexia; gene; ss;

KW human.

XX

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 13. .1425

FT /*tag= a

FT /product= "Human MMP-12"

FT /note= "Matrix metalloproteinase"

XX

PN US2003157110-A1.

XX

PD 21-AUG-2003.

XX

PF 07-JAN-2003; 2003US-00337632.

XX

PR 07-JAN-2002; 2002US-0346354P.

XX

PA (MILL-) MILLENNIUM PHARM INC.

XX

PI An WF, Chen H;

XX

DR WPI; 2003-897814/82.

DR P-PSDB; ADF18050.

XX

PT Identifying a compound capable of treating a metabolic disorder comprises
PT assaying for compounds that modulate matrix metalloprotease MMP-12
PT expression or activity.

XX Claim 4; SEQ ID NO 1; 38pp; English.

PS

XX

CC The invention describes a method of identifying a compound capable of
CC treating a metabolic disorder comprising assaying the ability of the
CC compound to modulate a matrix metalloproteinase 12 (MMP-12) nucleic acid
CC expression or MMP-12 polypeptide activity. The compound has anorectic,
CC antidiabetic and immunomodulator properties. An antisense oligonucleotide
CC or ribozyme targets the MMP-12 transcripts and inhibits translation.
CC Alternatively the oligonucleotide forms a triple helix with the promoter

CC of the MMP-12 gene and inhibits transcription. The invention is used to
CC identify a compound useful for treating a metabolic disorder,
CC particularly obesity, overweight, diabetes, insulin resistance, cachexia
CC or anorexia. This sequence encodes human matrix metalloproteinase 12 (MMP
CC -12).

SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;
Query Match 100.0%; Score 19; DB 10; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 28
ADF74444/c
ID ADF74444 standard; DNA; 1778 BP.
XX
AC ADF74444;

XX 26-FEB-2004 (first entry)

XX Full length human matrix metalloproteinase-12 (MMP-12) DNA (SeqID 14).

DE gene; ds; human; microbial infection; MMPAP-12; MMP-12;
XX matrix metalloproteinase-12; matrix degrading enzyme; emphysema;
KW aortic aneurysm; antimicrobial; pneumonia; peritonitis; antibacterial;
KW virucidal; protozoacidal; fungicidal.

XX Homo sapiens.

XX
FH Key Location/Qualifiers
CDS 13..1425
FT /*tag= a
FT /product= "MMP-12 protein"

XX WO2003087325-A2.

XX 23-OCT-2003.

XX 08-APR-2003; 2003WO-US010911.

XX 08-APR-2002; 2002US-0370649P.

XX (BGHM) BRIGHAM & WOMENS HOSPITAL INC.

XX Shapiro SD, Hartzell WO;

XX WPI; 2003-8653359/80.
DR P-PSDB; ADF74443.

XX New isolated MMPAP-12 polypeptide and nucleic acid molecule, useful for
PT treating infectious diseases associated with microorganisms, bacteria,
PT virus, fungi or parasites.

XX Claim 18; SEQ ID NO 14; 126pp; English.

XX This invention relates to a novel method for treating or preventing
CC microbial infections by the administration of MMPAP-12 nucleic acids and
CC encoded polypeptides thereof. Specifically MMPAP-12, also referred to as
CC MMP-12, refers to matrix metalloproteinase-12 and is a member of the
CC family of matrix degrading enzymes capable of matrix destruction and
CC hence contributes to such diseases as emphysema and aortic aneurysm. The
CC present invention, however, describes the unexpected non-enzymatic,
CC antimicrobial properties of the MMP-12 protein at the cellular level. As
CC such, MMP-12 nucleic acids, proteins and fragments thereof, have been
CC identified that exhibit specific activities which are useful for the
CC treatment of infectious diseases associated with microorganisms,
CC bacteria, virus, fungi or parasites such as pneumonia or peritonitis.
CC Accordingly, these compositions have been described as antibacterial,

CC virucidal, protozoacidal and fungicidal. This polynucleotide is the full
CC length human MMP-12 DNA sequence of the invention.

XX Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

SQ Query Match 100.0%; Score 19; DB 10; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 29
ACC46771/c
ID ACC46771 standard; cDNA; 1778 BP.

XX ACC46771;

XX 05-JUN-2003 (first entry)

XX Human COPD related protein encoding cDNA SEQ ID NO:22.

XX Human; chronic obstructive pulmonary disease; COPD; chronic lung disease;
KW gene; ss.

XX Homo sapiens.

XX WO200297127-A2.

XX 05-DEC-2002.

XX 28-MAY-2002; 2002WO-EP005835.

XX 31-MAY-2001; 2001GB-00013266.

XX (FARB) BAYER AG.

XX Oellers N, Gehrman M, Kallabis H, Hall R, Schulze T, Kroegel C;

XX WPI; 2003-140492/13.
DR P-PSDB; ABP96800.

XX Predicting, diagnosing or prognosing chronic lung disease, by detecting a
PT chronic obstructive pulmonary disease (COPD) gene in a biological sample.

XX Claim 8; Page 110-111; 214pp; English.

XX The present invention describes a method for predicting, diagnosing or
CC prognosing chronic lung disease by detecting a chronic obstructive
CC pulmonary disease (COPD) gene related polynucleotide (see ACC46750 to
CC ACC46777, which encode the COPD related proteins in ABP96779 to
CC ABP96806). The method is useful for predicting, diagnosing or prognosing
CC chronic lung disease in a biological sample. The COPD genes and proteins
CC encoded by them from the present invention (I) can be used for treating
CC or preventing chronic lung disease in a mammal. (I) can be used in an
CC animal model for determining the efficacy, toxicity, or side effects of
CC treatment with (I), and determining the mechanism of action of (I).
CC ACC46778 to ACC46903 represent COPD related PCR primers and probes used
CC in an example from the present invention

XX Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

SQ Query Match 100.0%; Score 19; DB 10; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 30	
ABZ96868/c	
ID	ABZ96868 standard; DNA; 1778 BP.
XX	
AC	ABZ96868;
XX	
DT	17-OCT-2003 (first entry)
XX	
DE	Human nucleic acid sequence.
XX	
KW	Human; antisense; lung dysfunction; nasal airway dysfunction;
KW	antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
KW	antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW	antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW	adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW	lung inflammation; respiratory disease; ds.
XX	
OS	Homo sapiens.
XX	
PN	WO200285308-A2.
XX	
PD	31-OCT-2002.
XX	
PF	23-APR-2002; 2002WO-US013135.
XX	
PR	24-APR-2001; 2001US-0286137P.
XX	
PA	(EPIC-) EPIGENESIS PHARM INC.
XX	
PI	Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI	Miller S, Tang L, Shahabuddin S;
XX	
DR	WPI; 2003-229219/22.
XX	
PT	Pharmaceutical composition for treating ailments associated with impaired
PT	respiration, has oligo(s) antisense to specific gene(s) or its
PT	corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT	ubiquinone.
XX	
PS	Disclosure; SEQ ID NO 12110; 872pp; English.
XX	
CC	The invention relates to a novel pharmaceutical composition, which has a
CC	first active agent comprising an oligonucleotide antisense to the
CC	initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC	5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC	junctions of genes encoding a polypeptide associated with lung and/or
CC	nasal airway dysfunction and a second active agent comprising an
CC	antiinflammatory steroid and ubiquinone. A composition of the invention
CC	has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
CC	immunosuppressive, and cytostatic activity. The composition may have a
CC	use in antisense gene therapy. The composition is useful for treating or
CC	preventing a respiratory, lung or malignant disease or condition, also
CC	for enhancing the prophylactic or therapeutic respiratory effect of an
CC	antiinflammatory steroid in a subject, for reducing or depleting levels
CC	of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC	receptor, producing bronchodilation, increasing levels of ubiquinone or
CC	lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC	lung inflammation, lung allergies, or a respiratory disease or condition.
CC	Note: The sequence data for this patent is not represented in the printed
CC	specification, but was obtained in electronic format directly from WIPO
CC	at ftp.wipo.int/pub/published_pct_sequences
XX	
SQ	Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

RESULT 31	
ABD20717/c	
ID	ABD20717 standard; DNA; 1778 BP.
XX	
AC	ABD20717;
XX	
DT	29-JUL-2004 (first entry)
XX	
DE	Human pulmonary and inflammatory target DNA #328.
XX	
KW	Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
KW	respiratory tract inflammation; adenosine sensitivity; lung; cancer;
KW	surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;
KW	analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
KW	beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
KW	respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
KW	emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
KW	pulmonary transplantation rejection; ds.
XX	
OS	Homo sapiens.
XX	
PN	WO200285309-A2.
XX	
PD	31-OCT-2002.
XX	
PF	23-APR-2002; 2002WO-US013143.
XX	
PR	24-APR-2001; 2001US-0286036P.
XX	
PA	(EPIG-) EPIGENESIS PHARM INC.
XX	
PI	Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI	Miller S, Tang L, Shahabuddin S;
XX	
DR	WPI; 2003-093058/08.
XX	
PT	Pharmaceutical composition for treating asthma, has antisense
PT	oligonucleotide containing less percentage of adenosine, targeted to
PT	nucleic acids associated with lung airway or lung dysfunction, and
PT	bronchodilating agent.
XX	
PS	Claim 15; SEQ ID NO 12110; 763pp; English.
XX	
CC	This invention describes a novel composition (a) a first active agent,
CC	comprising oligonucleotides, effective for alleviating
CC	bronchoconstriction, respiratory tract inflammation, allergies and
CC	reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
CC	surfactant depletion or hyposecretion, when administered to a mammal. The
CC	oligonucleotides are derived from a gene encoding or regulating
CC	expression of a target polypeptide associated with lung airway or lung
CC	dysfunction or cancer and can be anti-sense to the corresponding mRNA.
CC	The invention also describes a kit, that comprises: (a) a delivery
CC	device, in separate containers, (b) the oligonucleotides, (c)
CC	instructions for adding a carrier and for use of the kit. The composition
CC	of the invention has anti-allergic, anti-inflammatory, antiasthmatic, is a
CC	analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
CC	beta-adrenergic agonist. The composition is useful for preventing or
CC	treating a respiratory, lung or malignant disease. The administered
CC	composition comprises oligo and is administered to reduce the production
CC	or availability, or to increase the degradation of the target mRNA or to
CC	reduce the amount of target polypeptide present in the lungs. The
CC	pulmonary obstruction, and/or bronchoconstriction and/or lung
CC	inflammation, allergies and/or surfactant hypoproduction are associated
CC	with a disease or condition such as pulmonary vasoconstriction,
CC	inflammation, allergies, asthma, impeded respiration, respiratory
CC	distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
CC	hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
CC	transplantation rejection, pulmonary infections, bronchitis or cancer.
CC	The reduced adenosine content of the anti-sense oligos corresponding to
CC	thymidines present in the target RNA serves to prevent the breakdown of
CC	the oligonucleotides into products that free adenosine into the system of
CC	e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
CC	prevent any unwanted effects due to it

XX SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 11; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 32
ADI53688/c
ID ADI53688 standard; cDNA; 1778 BP.
XX AC ADI53688;
XX DT 22-APR-2004 (first entry)
XX DE Human matrix metalloproteinase 12, MMP-12, cDNA sequence, SEQ ID 1.
XX KW Antiinflammatory; Antipsoriatic; Antiasthmatic; Antiarthritic;
XX KW Respiratory; antisense oligonucleotide; matrix metalloproteinase 12;
XX KW MMP-12; inflammatory bowel disease; ulcerative colitis; Crohn's disease;
XX KW rheumatoid arthritis; psoriasis; emphysema; asthma; human; ss.
XX OS Homo sapiens.
XX PN WO2004009098-A1.
XX PD 29-JAN-2004.
XX PF 17-JUL-2003; 2003WO-SE001223.
XX PR 18-JUL-2002; 2002SE-00002253.
XX PR 04-SEP-2002; 2002US-0407680P.
XX PA (INDE-) INDEX PHARM AB.
XX PI Dieckmann A, Loeffberg R, Von Stein O, Von Stein P, Good L;
XX WPI; 2004-123288/12.
XX DT New compound having a sequence targeted to a nucleic acid encoding
PT metalloproteinase 12 (MMP-12), useful for preparing a composition for
PT treating or preventing MMP-12 dependent disorder in a human patient e.g.,
PT asthma or psoriasis.
XX PS Claim 2; SEQ ID NO 1; 55pp; English.
XX CC The present invention relates to antisense oligonucleotides (ADI53690-
CC ADI53701) for matrix metalloproteinase 12 (MMP-12; ADI53688 and
CC ADI53689), which specifically hybridise with the nucleic acid encoding
CC MMP-12 and inhibiting the translation of MMP-12 protein. The antisense
CC oligonucleotides are useful for preparing a composition for treating or
CC preventing MMP-12 dependent disorder in a human patient e.g. inflammatory
CC bowel disease, such as ulcerative colitis and Crohn's disease, rheumatoid
CC arthritis, psoriasis, emphysema or asthma.
XX SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 12; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 33
ADN05808/c

ID ADN05808 standard; cDNA; 1778 BP.
XX AC ADN05808;
XX DT 01-JUL-2004 (first entry)
XX DE Antipsoriatic cDNA sequence #1135.
XX KW ds; gene; antipsoriatic; gene therapy; psoriasis; diagnosis.
XX OS Homo sapiens.
XX PN WO2004028479-A2.
XX PD 08-APR-2004.
XX PF 25-SEP-2003; 2003WO-US030907.
XX PR 25-SEP-2002; 2002US-0414006P.
XX PA (GETH) GENENTECH INC.
XX PI Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
PI Wu TD;
XX WPI; 2004-305105/28.
XX DR P-PSDB; ADN05809.
XX PT New PRO nucleic acid or polypeptide, useful for preparing a
PT pharmaceutical composition for diagnosing or treating psoriasis in a
PT mammal.
XX PS Claim 1; SEQ ID NO 2202; 3069pp; English.
XX CC The invention relates to novel polynucleotide and polypeptides for
CC treating psoriasis or a sequence having at least 80% identity to the
CC above sequences. The nucleic acid is useful for preparing a composition
CC for diagnosing or treating psoriasis in a mammal. This sequence
CC corresponds to one of the polynucleotides of the invention.
XX SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 12; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 34
ADQ29584/c
ID ADQ29584 standard; DNA; 1778 BP.
XX AC ADQ29584;
XX DT 07-OCT-2004 (first entry)
XX DE Human colorectal cancer-associated protein coding sequence #6.
XX KW human; colon cancer; TIMP1; Reg1-alpha;
XX KW colorectal cancer-associated marker; gene; ds.
XX OS Homo sapiens.
XX PN EP1439393-A2.
XX PD 21-JUL-2004.
XX PF 15-DEC-2003; 2003EP-00257868.
XX PR 13-DEC-2002; 2002US-0433554P.

PR 31-JUL-2003; 2003US-0491397P.
XX (FARB) BAYER HEALTHCARE LLC.
PA (MAYO-) MAYO FOUND MEDICAL EDUCATION & RES.
XX Astle JH, Boardman LA, Bugart LJ, Burgess CC, Catino TJ;
PI Dwivedi P, Huntress M, Johnson KA, Lewis ME, Maimonis PJ, Myerow SH;
PI Brown-Shimer SLA, Thiagalingam A, Thibodeau SN, Molino GA;
XX WPI; 2004-545561/53.
DR P-PSDB; ADQ29651.
XX
PT Diagnosing colon cancer in individual, preferably human, by detecting
PT presence of TIMP 1 in sample, where presence of TIMP 1 in sample is
PT indicative of colon cancer in individual.
XX
PS Claim 7; SEQ ID NO 10; 433pp; English.
XX
CC The invention comprises a method for diagnosing colon cancer in an
CC individual, the method involves obtaining a serum sample from the
CC individual and detecting the presence of either TIMP1 or RegI-alpha and
CC an additional colorectal cancer-associated marker. The method of the
CC invention is useful for diagnosing colon cancer in an individual. The
CC present DNA sequence represents a human colorectal cancer-associated
CC protein coding sequence of the invention.
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 12; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 35
ADR24908/c
ID ADR24908 standard; DNA; 1778 BP.
XX
AC ADR24908;
XX
DT 21-OCT-2004 (first entry)
XX
DE Breast cancer prognosis marker #769.
XX
KW ds; breast cancer; prognosis; gene expression; diagnosis.
XX
OS Homo sapiens.
XX
PN WO2004065545-A2.
XX
PD 05-AUG-2004.
XX
PF 15-JAN-2004; 2004WO-US001100.
XX
PR 15-JAN-2003; 2003US-00342887.
XX
PA (ROSE-) ROSETTA INPHARMATICS LLC.
PA (NECA-) NETHERLANDS CANCER INST.
XX
PI Van't Veer LJ, He Y;
XX
DR WPI; 2004-593473/57.
XX
PT Classifying a breast cancer patient according to prognosis comprises
PT determining the similarity between the level of expression of each of
PT five genes in a cell sample taken from patient, to control levels.
XX
PS Disclosure; SEQ ID NO 769; 226pp; English.
XX
CC The invention relates to a method of classifying a breast cancer patient

CC according to prognosis by determining the similarity between the level of
CC expression of each of five genes for which markers are listed in the
CC specification, in a cell sample taken from the breast cancer patient, to
CC control levels of expression for each respective five genes to obtain a
CC patient similarity value. The methods are useful for classifying a breast
CC cancer patient according to prognosis. Kits and computer program products
CC are useful for data analysis using the diagnostic, prognostic and
CC statistical methods of the invention. This sequence corresponds to a
CC marker used in the method of the invention.
XX
SQ Sequence 1778 BP; 548 A; 357 C; 337 G; 536 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 13; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 36
ABZ20476/c
ID ABZ20476 standard; cDNA; 1781 BP.
XX
AC ABZ20476;
XX
DT 23-JAN-2003 (first entry)
XX
DE Matrix metalloproteinase 12 full length cDNA sequence SEQ ID NO:2910.
XX
KW Human; cancer; tumour; therapy; diagnosis; CT antigen; CP antigen;
KW immune response; virology; immunology; microbiology; molecular biology;
KW recombinant DNA technology; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200278516-A2.
XX
PD 10-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-US010421.
XX
PR 30-MAR-2001; 2001US-0280255P.
PR 28-AUG-2001; 2001US-0315563P.
PR 09-JAN-2002; 2002US-0347313P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Wang T, Wang S, Bangur CS, Gaiger A;
XX
DR WPI; 2003-058387/05.
DR P-PSDB; ABP54460.
XX
PT New immunogenic polynucleotides or polypeptides useful for diagnosing,
PT preventing and treating cancer expressing CT or CP mRNA antigens, and in
PT virology, immunology, microbiology, molecular biology and recombinant DNA
PT techniques.
XX
PS Claim 1; SEQ ID NO 2910; 207pp; English.
XX
CC ABQ17575 to ABQ20506 represent isolated polynucleotide (I) sequences, and
CC ABP54446 to ABP54472 represent protein (II) sequences, from the present
CC invention. (I) and (II) have cytostatic activity and can be used in gene
CC therapy and vaccines. (I), (II), antibodies and compositions from the
CC present invention are useful for diagnosing, preventing and treating
CC cancer, which expresses CT or CP mRNA antigens. They are useful for
CC stimulating immune response. They can also be useful in virology,
CC immunology, microbiology, molecular biology and recombinant DNA
CC techniques. N.B. The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX


```
SQ Sequence 1781 BP; 547 A; 359 C; 341 G; 534 T; 0 U; 0 Other;
Query Match 100.0%; Score 19; DB 8; Length 1781;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 37
AAF81624/c
ID AAF81624 standard; cDNA; 1818 BP.
XX
AC AAF81624;
XX
DT 11-JUN-2001 (first entry)
XX
DE Human macrophage metalloelastase HME coding sequence.
XX
KW Human; HME: macrophage metalloelastase; elastolysis; pulmonary emphysema;
KW inflammatory disease; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1413
FT /*tag= a
FT /product= "macrophage metalloelastase"
XX
PN US6204043-B1.
XX
PD 20-MAR-2001.
XX
PF 01-MAR-1995; 95US-00396988.
XX
PR 28-MAY-1993; 93US-00068392.
XX
PA (UNIW ) UNIV WASHINGTON.
XX
PI Shapero SD;
XX
PI
XX
DR WPI; 2001-049090/06.
DR P-PSDB; AAB74595.
XX
PT New human macrophage metalloelastase, useful in the normal embryonic
PT development, growth, tissue remodeling and tissue repair, particularly in
PT studying the pathogenesis of pulmonary emphysema.
XX
XX Example; Fig 5; 20pp; English.
XX
CC The present invention provides the protein and coding sequences of human
CC macrophage metalloelastase (HME). The protein has elastolytic activity.
CC HME has a role in tissue remodeling and repair associated with
CC development and inflammation, and abnormal expression can result in
CC tumour invasiveness, arthritis and atherosclerosis. It is also thought to
CC contribute to the pathogenesis of pulmonary emphysema and other
CC inflammatory destructive diseases. The present sequence is the HME coding
CC sequence
XX
SQ Sequence 1818 BP; 563 A; 365 C; 350 G; 540 T; 0 U; 0 Other;
Query Match 100.0%; Score 19; DB 4; Length 1818;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 38
AAF81624/c
ID AAF81624 standard; cDNA; 1818 BP.
XX
AC AAF81624;
XX
DT 13-MAR-2001 (first entry)
XX
DE Human macrophage metalloelastase coding sequence.
XX
KW Human; macrophage metalloproteinase; elastin; matrix degrading enzyme;
KW emphysema; ss.
XX
OS Homo sapiens.
XX
PN US6150152-A.
XX
PD 21-NOV-2000.
XX
PF 28-MAY-1993; 93US-00068392.
XX
PR 28-MAY-1993; 93US-00068392.
XX
PA (UNIW ) UNIV WASHINGTON.
XX
PI Shapero SD;
XX
PI
XX
DR WPI; 2001-049090/06.
DR P-PSDB; AAB49982.
XX
PT Novel human macrophage metalloelastase polynucleotides and polypeptides
PT useful for measuring elastin degradation.
XX
PS Claim 2; Fig 5; 20pp; English.
XX
CC The present invention provides the coding and protein sequences for the
CC human macrophage metalloelastase. This is a matrix degrading
CC metalloproteinase which has the ability to degrade elastin, and can be
CC used to measure elastin degradation
XX
XX Sequence 1818 BP; 563 A; 365 C; 350 G; 540 T; 0 U; 0 Other;
Query Match 100.0%; Score 19; DB 4; Length 1818;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 39
ADQ23366/c
ID ADQ23366 standard; DNA; 1873 BP.
XX
AC ADQ23366;
XX
DT 26-AUG-2004 (first entry)
XX
DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 6186.
XX
KW soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
KW ds.
XX
OS Homo sapiens.
XX
PN WO2004048938-A2.
XX
PD 10-JUN-2004.
XX
PF 26-NOV-2003; 2003WO-US038193.
XX
PR 26-NOV-2002; 2002US-0429739P.
XX
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PA	(PROT-) PROTEIN DESIGN LABS INC.	DR	WPI; 2000-587533/55.
XX		DR	P-PSDB; AAB43772.
PI	Aziz N, Ginsburg WM, Zlotnik A;	XX	
XX		PT	Novel isolated nucleic acids comprising sequences encoding peptides
DR	WPI; 2004-441208/41.	PT	useful for treating or diagnosing e.g. cancer.
XX		XX	
PT	Early detection of soft tissue sarcoma comprises determining expression	PS	Claim 1; Page 921-922; 2352pp; English.
PT	of a gene in a first soft tissue sample and a normal soft tissue sample	XX	
PT	and comparing the gene expression, also useful in treating soft tissue	CC	AAC77607 to AAC78448 encode the human cancer associated proteins given in
PT	sarcoma.	CC	AAB43398 to AAB44239. The proteins can have activities based on the
XX		CC	tissues and cells the genes are expressed in. Example of activities
XX		CC	include: cytostatic; proliferative; vulnerary; immunomodulator;
PS	Example 2; SEQ ID NO 6186; 210pp; English.	CC	antidiabetic; antiasthmatic; antirheumatic; antiarthritic;
XX		CC	antiinflammatory; antithyroid; antiallergic; antibacterial; antiviral;
CC	The invention relates to a novel method for detecting soft tissue sarcoma	CC	dermatological; neuroprotective; cardiant; thrombolytic; coagulant;
CC	which comprises obtaining a first soft tissue sample from an individual	CC	nootropic; vasotropic; antipsoriatic and antiangiogenic. The
CC	and a normal soft tissue sample from the same or different individual,	CC	polynucleotides and polypeptides can be used for preventing, treating or
CC	determining the expression of a gene in both samples and comparing the	CC	ameliorating medical conditions and diagnosing pathological conditions.
CC	expression of the gene in both soft tissue samples, where a higher level	CC	Polynucleotides, polypeptides, antibodies, agonists and antagonists from
CC	of protein expression in the first soft tissue sample indicates the	CC	the present invention may be used to treat immune disorders by activating
CC	presence of soft tissue sarcoma. The method of the invention has	CC	or inhibiting the proliferation, differentiation or mobilisation of
CC	cytostatic applications and may be useful for detecting soft tissue	CC	immune cells, to treat disorders of haematopoietic cells, autoimmune
CC	sarcoma, possibly via gene therapy or vaccine production. The nucleic	CC	disorders, allergic reactions, graft versus host disease and organ
CC	acid sequences may be useful in diagnostic and screening applications.	CC	rejection, modulate haemostatic or thrombolytic activity, modulate
CC	The current sequence is that of a human soft tissue sarcoma-upregulated	CC	inflammation, cancers, cardiovascular disorders, neurological disease and
CC	DNA of the invention. The current sequence is not shown within the	CC	bacterial or viral infections. The peptides, nucleotides, antibodies,
CC	specification per se but was submitted in CD format by the inventor.	CC	agonists and antagonists may be also be used in drug screens. AAC78449 to
XX		CC	AAC78457 and AAB44240 represent sequences used in the exemplification of
SQ	Sequence 1873 BP; 590 A; 379 C; 356 G; 548 T; 0 U; 0 Other;	CC	the present invention
		XX	
	Query Match 100.0%; Score 19; DB 12; Length 1873;	SQ	Sequence 1874 BP; 609 A; 367 C; 352 G; 546 T; 0 U; 0 Other;
	Best Local Similarity 100.0%; Pred. No. 0.33;		
	Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
			Query Match 100.0%; Score 19; DB 3; Length 1874;
			Best Local Similarity 100.0%; Pred. No. 0.33;
			Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 AATTATTGATTCTGTAGGT 19	QY	1 AATTATTGATTCTGTAGGT 19
Db	421 AATTATTGATTCTGTAGGT 403	Db	423 AATTATTGATTCTGTAGGT 405
RESULT 40		RESULT 41	
AAC77981/c		ADB47336/c	
ID AAC77981 standard; cDNA; 1874 BP.		ID ADB47336 standard; cDNA; 1988 BP.	
XX		XX	
AC AAC77981;		AC ADB47336;	
XX		XX	
DT 08-FEB-2001 (first entry)		DT 04-DEC-2003 (first entry)	
XX		XX	
DE Human cancer associated gene sequence SEQ ID NO:375.		DE Human cDNA upregulated in dendritic cells SEQ ID NO 36.	
XX		XX	
KW Human; cancer associated gene; cancer antigen; detection; cancer;		XX	ss; gene; human; dendritic cells; high throughput; cancer;
KW diagnosis; cytostatic; proliferative; vulnerary; immunomodulator;		KW	infectious disease; autoimmune disease; allergy;
KW antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral;		KW	graft versus host disease; vaccine enhancing; gene therapy.
KW antiinflammatory; antithyroid; antiallergic; antibacterial; cardiant;		XX	
KW dermatological; neuroprotective; thrombolytic; coagulant; nootropic;		OS	Homo sapiens.
KW vasotropic; antipsoriatic; antiangiogenic; gene therapy; inflammation;		XX	
KW immune disorder; haematopoietic cell disorder; autoimmune disorder;		PN	US2003134283-A1.
KW allergic reaction; graft versus host disease; organ rejection;		XX	
KW haemostatic; thrombolytic; cardiovascular disorder; infection;		PD	17-JUL-2003.
KW neurological disease; drug screening; ss.		XX	
XX		XX	
OS Homo sapiens.		PF	03-OCT-2001; 2001US-00971392.
XX		XX	
PN WO200055350-A1.		XX	
XX		PR	03-OCT-2000; 2000US-0237652P.
PD 21-SEP-2000.		XX	
XX		PA	(PETE/) PETERSON D P.
XX		PA	(PEAR/) PEARSON C I.
PF 08-MAR-2000; 2000WO-US005882.		PA	(COCK/) COCKS B G.
XX		XX	
PR 12-MAR-1999; 99US-0124270P.		PI	Peterson DP, Pearson CI, Cocks BG;
XX		XX	
PA (HUMA-) HUMAN GENOME SCI INC.		DR	WPI; 2003-662509/62.
XX		XX	
PI Rosen CA, Ruben SM;			
XX			

PT New combination comprises cDNAs that are differentially expressed in
PT dendritic cells useful for preparing a composition for diagnosing or
PT treating cancer, infectious disease, autoimmunity, allergy or graft
PT versus host disease.
XX
PS Claim 1; SEQ ID NO 36; 28pp; English.
XX
CC The invention relates to a combination comprising cDNAs that are
CC differentially expressed in dendritic cells (DC). Also included is a high
CC throughput method for detecting differential expression of one or more
CC cDNAs in a sample containing nucleic acids. The combination is useful for
CC preparing a composition for diagnosing, treating and monitoring the
CC treatment of cancer, infectious disease, autoimmunity, allergy or graft
CC versus host disease, or for enhancing a vaccine. The present sequence
CC represents a human cDNA upregulated in dendritic cells. Note: The
CC sequence data for this patent did not form part of the printed
CC specification but was obtained in electronic format directly from USPTO
CC at seqdata.uspto.gov/sequence.html?DocID=20030134283.
XX
SQ Sequence 1988 BP; 627 A; 387 C; 371 G; 602 T; 0 U; 1 Other;

Query Match 100.0%; Score 19; DB 10; Length 1988;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 396 AATTATTGATTCTGTAGGT 378

RESULT 42
ADD29857/c
ID ADD29857 standard; mRNA; 2870 BP.
XX
AC ADD29857;
XX
DT 15-JAN-2004 (first entry)
XX
DE Human tumour suppressor mRNA SEQ ID NO:288.
XX
KW ss; human; tumour suppressor; cancer; cancer; cytostatic; gene therapy.
XX
OS Homo sapiens.
XX
PN WO2003058201-A2.
XX
PD 17-JUL-2003.
XX
PF 31-DEC-2002; 2002WO-US041825.
XX
PR 31-DEC-2001; 2001US-0345317P.
XX
PA (QUAR-) QUARK BIOTECH INC.
PA (CLEV-) CLEVELAND CLINIC FOUND.
XX
PI Feinstein E, Gudkov AV;
XX
DR WPI; 2003-598393/56.
XX
PT Diagnosing cancer comprises determining the polypeptide or polynucleotide
PT levels e.g., hepatic lipase, in a sample from a subject, where a higher
PT level compared to that in a subject free of cancer is indicative of
PT cancer.
XX
PS Disclosure; SEQ ID NO 288; 272pp; English.
XX
CC The invention relates to a novel method for diagnosing a cancer in a
CC subject. the method comprises determining, in a sample from the subject,
CC the level of at least one polypeptide, where a higher level of the
CC polypeptide compared to the level of the polypeptide in a subject free of
CC cancer is indicative of cancer. The polypeptide is selected from any of
CC the polypeptides encoded by the polynucleotides listed in the
CC specification and polypeptides which are at least 70% homologous to the

CC polypeptides. The method of the invention has cytostatic activity, and
CC may have a use in gene therapy. The method is useful in identifying
CC markers specific for one or several types of cancer, depending on the
CC tissue origin, which may be used in numerous diagnostic and prognostic
CC applications as well as cancer type-specific targets for therapeutic
CC intervention. The compounds that modulate the activity of a tumour
CC suppressor gene are useful in the treatment of cancer or as anti-cancer
CC drugs. The present sequence represents a polynucleotide of the invention.
XX
SQ Sequence 2870 BP; 883 A; 540 C; 563 G; 884 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 10; Length 2870;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 1465 AATTATTGATTCTGTAGGT 1447

RESULT 43
AAA35055/c
ID AAA35055 standard; DNA; 9137 BP.
XX
AC AAA35055;
XX
DT 28-JUL-2000 (first entry)
XX
DE Human adenosine receptor related polynucleotide SEQ ID NO:2744.
XX
KW Human; adenosine receptor; low adenosine antisense oligonucleotide;
KW phosphorothioate; impaired respiration; inflammation; allergy;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200009525-A2.
XX
PD 24-FEB-2000.
XX
PF 03-AUG-1999; 99WO-US017712.
XX
PR 03-AUG-1998; 98US-0095212P.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
PI Nyce JW;
XX
DR WPI; 2000-205971/18.
XX
PT New antisense oligonucleotides useful for treating e.g. pulmonary
PT vasoconstriction, inflammation, allergies, asthma, hypertension,
PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
PT cancers.
XX
PS Disclosure; Page 1018-1020; 1343pp; English.
XX
CC The present invention describes a new composition comprising an antisense
CC oligonucleotide (ON) with low adenosine (up to 15%), which targets
CC nucleic acids involved in bronchoconstriction, allergies, and/or
CC inflammation. The ON can have antiinflammatory, antiallergic,
CC antiasthmatic, cytostatic and analgesic activities. The compositions are
CC useful for the treatment of diseases associated with inflammation,
CC impaired airways, including lung disease and diseases whose secondary
CC effects afflict the lungs of a subject. They can be used for treating
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,
CC impeded respiration, respiratory distress syndrome, pain, cystic
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive

CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,
CC carcinomas, and cancers which may metastasise to the lungs, including
CC breast and prostate cancer. The reduction of the adenosine content of the
CC ONs reduces side effects. The A-containing ONs break down with the
CC release of deoxyadenosine which activates adenosine receptors causing
CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
CC nucleotide sequences given in the sequence listing from the present
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185
CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ
CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to
CC AAA33992) are specifically claimed ONs from the present invention. N.B.
CC Sequences given in the disclosure of the present invention do not match
CC up with their corresponding SEQ ID NO: sequences given in the sequence
CC listing
XX
SQ Sequence 9137 BP; 2510 A; 2118 C; 2093 G; 2416 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 3; Length 9137;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 4780 AATTATTGATTCTGTAGGT 4762

RESULT 44
AAAF21177/c
ID AAF21177 standard; DNA; 9137 BP.
XX
AC AAF21177;
XX
DT 14-MAR-2001 (first entry)
XX
DE Human low adenosine antisense oligonucleotide related sequence #2744.
XX
KW Low adenosine antisense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pain; cystic fibrosis; allergic rhinitis;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200062736-A2.
XX
PD 26-OCT-2000.
XX
PF 24-MAR-2000; 2000WO-US008020.
XX
PR 06-APR-1999; 99US-0127958P.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX (NYCE/) NYCE J W.
XX
PI Nyce JW;
XX
DR WPI; 2000-679539/66.
XX
PT Low adenosine (A) content antisense oligonucleotides which do not trigger
PT adenosine receptors during metabolism, useful e.g. for treating cancers
PT and respiratory obstructions.
XX
PS Disclosure; Page 1096-1098; 1592pp; English.
XX
CC The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'Universal' or alternative base.

CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or
CC surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention
XX
SQ Sequence 9137 BP; 2510 A; 2118 C; 2093 G; 2416 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 3; Length 9137;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
Db 4780 AATTATTGATTCTGTAGGT 4762

RESULT 45
ABZ96871/c
ID ABZ96871 standard; DNA; 9137 BP.
XX
AC ABZ96871;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human nucleic acid sequence.
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013135.
XX
PR 24-APR-2001; 2001US-0286137P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-229219/22.
XX
PT Pharmaceutical composition for treating ailments associated with impaired

PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiquinone.
XX
PS Disclosure; SEQ ID NO 12113; 872pp; English.
XX
CC The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiquinone. A composition of the invention
CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also
CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiquinone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 9137 BP; 2510 A; 2118 C; 2093 G; 2416 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 10; Length 9137;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 4780 AATTATTGATTCTGTAGGT 4762

Search completed: April 26, 2005, 15:31:22
Job time : 443 secs

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OM nucleic - nucleic search, using sw model

Run on: April 26, 2005, 15:31:33 ; Search time 136 Seconds
(without alignments)
228.597 Million cell updates/sec

Title: US-10-619-906-5
Perfect score: 19
Sequence: 1 aattattgattctgtagg 19
Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1202784 seqs, 818138359 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq: *
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq: *
6: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	19	100.0	1410	3	US-08-068-392-1 Sequence 1, Appli
C 2	19	100.0	1410	3	US-08-396-988-1 Sequence 1, Appli
C 3	19	100.0	1780	4	US-09-949-016-5005 Sequence 5005, Ap
C 4	17	89.5	47	4	US-09-422-978-2352 Sequence 2352, Ap
C 5	16	84.2	597	4	US-09-248-796A-3451 Sequence 3451, Ap
C 6	16	84.2	1572	4	US-09-248-796A-3452 Sequence 3452, Ap
C 7	15	78.9	498	4	US-09-854-133-345 Sequence 345, App
C 8	15	78.9	601	4	US-09-949-016-69808 Sequence 69808, A
C 9	15	78.9	2070	4	US-09-949-016-2056 Sequence 2056, Ap
C 10	15	78.9	21125	4	US-09-949-016-15108 Sequence 15108, A
C 11	15	78.9	39318	4	US-09-949-016-13798 Sequence 13798, A
C 12	15	78.9	51161	4	US-09-949-016-17416 Sequence 17416, A
C 13	14	73.7	315	3	US-09-134-001C-250 Sequence 250, App
C 14	14	73.7	373	3	US-09-615-192A-357 Sequence 357, App
C 15	14	73.7	594	4	US-09-328-352-3288 Sequence 3288, Ap
C 16	14	73.7	601	4	US-09-949-016-27232 Sequence 27232, A
C 17	14	73.7	601	4	US-09-949-016-81772 Sequence 81772, A
C 18	14	73.7	601	4	US-09-949-016-122846 Sequence 122846,
C 19	14	73.7	601	4	US-09-949-016-130732 Sequence 130732,
C 20	14	73.7	601	4	US-09-949-016-160756 Sequence 160756,
C 21	14	73.7	900	4	US-09-543-681A-4127 Sequence 4127, Ap
C 22	14	73.7	987	4	US-09-248-796A-1645 Sequence 1645, Ap
C 23	14	73.7	1131	4	US-09-248-796A-4531 Sequence 4531, Ap
C 24	14	73.7	1247	3	US-09-178-115-110 Sequence 110, App
C 25	14	73.7	1247	3	US-09-177-776-110 Sequence 110, App
C 26	14	73.7	1509	4	US-09-134-000C-2709 Sequence 2709, Ap
C 27	14	73.7	1617	2	US-08-467-963C-25 Sequence 25, Appl

C 28	14	73.7	1617	2	US-08-838-189D-25	Sequence 25, Appl
C 29	14	73.7	1617	3	US-08-852-344D-25	Sequence 25, Appl
C 30	14	73.7	1617	3	US-08-344-639E-25	Sequence 25, Appl
C 31	14	73.7	1844	2	US-08-467-963C-1	Sequence 1, Appli
C 32	14	73.7	1844	2	US-08-838-189D-1	Sequence 1, Appli
C 33	14	73.7	1844	3	US-08-852-344D-1	Sequence 1, Appli
C 34	14	73.7	1844	3	US-08-344-639E-1	Sequence 1, Appli
C 35	14	73.7	1844	3	US-08-467-969A-1	Sequence 1, Appli
C 36	14	73.7	1844	3	US-08-467-961A-1	Sequence 1, Appli
C 37	14	73.7	1844	3	US-08-001-554A-1	Sequence 1, Appli
C 38	14	73.7	2007	4	US-09-617-594A-3	Sequence 3, Appli
C 39	14	73.7	2354	4	US-09-023-655-1080	Sequence 1080, Ap
C 40	14	73.7	2501	3	US-08-787-739-58	Sequence 58, Appl
C 41	14	73.7	2501	3	US-09-178-115-58	Sequence 58, Appl
C 42	14	73.7	2501	3	US-09-177-776-58	Sequence 58, Appl
C 43	14	73.7	2966	4	US-09-174-937-7	Sequence 7, Appli
C 44	14	73.7	3272	4	US-09-710-279-3700	Sequence 3700, Ap
C 45	14	73.7	3532	3	US-08-787-739-90	Sequence 90, Appl

ALIGNMENTS

RESULT 1
US-08-068-392-1/c
; Sequence 1, Application US/08068392
; Patent No. 6150152
; GENERAL INFORMATION:
; APPLICANT: Shapero, Steven M.
; TITLE OF INVENTION: Human Macrophage Metalloproteinase
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scott J. Meyer, Monsanto Co., A3SM
; STREET: 800 N. Lindbergh Blvd.
; CITY: St. Louis
; STATE: Missouri
; COUNTRY: USA
; ZIP: 63167
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/068,392
; FILING DATE: 19930528
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyer, Scott J.
; REGISTRATION NUMBER: 25275
; REFERENCE/DOCKET NUMBER: 07-24 (12406)A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314)694-3117
; TELEFAX: (314)694-5435
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1410 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1410
US-08-068-392-1

Query Match 100.0%; Score 19; DB 3; Length 1410;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 2

US-08-396-988-1/c
; Sequence 1, Application US/08396988
; Patent No. 6204043
; GENERAL INFORMATION:
; APPLICANT: Shapiro, Steven M.
; TITLE OF INVENTION: Human Macrophage Metalloproteinase
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scott J. Meyer, Monsanto Co., A3SM
; STREET: 800 N. Lindbergh Blvd.
; CITY: St. Louis
; STATE: Missouri
; COUNTRY: USA
; ZIP: 63167

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/396,988
; FILING DATE: 01-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/068,392
; FILING DATE: 28-MAY-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyer, Scott J.
; REGISTRATION NUMBER: 25275
; REFERENCE/DOCKET NUMBER: 07-24(12406)A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (314)694-3117
; TELEFAX: (314)694-5435
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1410

US-08-396-988-1

Query Match 100.0%; Score 19; DB 3; Length 1410;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 3

US-09-949-016-5005/c
; Sequence 5005, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5005
; LENGTH: 1780
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-5005

Query Match 100.0%; Score 19; DB 4; Length 1780;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 4

US-09-422-978-2352/c
; Sequence 2352, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 2352
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 99-10570-107 : polymorphic base G or A
; US-09-422-978-2352

Query Match 89.5%; Score 17; DB 4; Length 47;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTAGGT 19
|||
Db 21 TTATTGATTCTGTAGGT 5

RESULT 5

US-09-248-796A-3451/c
; Sequence 3451, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 3451

LENGTH: 597
TYPE: DNA
ORGANISM: Candida albicans
US-09-248-796A-3451

Query Match 84.2%; Score 16; DB 4; Length 597;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
Db 39 TATTGATTCTGTAGGT 24

RESULT 6

US-09-248-796A-3452/c
Sequence 3452, Application US/092248796A
Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 3452
LENGTH: 1572
TYPE: DNA
ORGANISM: Candida albicans
US-09-248-796A-3452

Query Match 84.2%; Score 16; DB 4; Length 1572;
Best Local Similarity 100.0%; Pred. No. 5.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
Db 45 TATTGATTCTGTAGGT 30

RESULT 7

US-09-854-133-345
Sequence 345, Application US/09854133
Patent No. 6759508

GENERAL INFORMATION:

APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Raodoh
APPLICANT: Henderson, Robert A.
APPLICANT: Benson, Darin R.
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.475C10
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT FILING DATE: 2001-05-11
NUMBER OF SEQ ID NOS: 735
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 345
LENGTH: 498
TYPE: DNA
ORGANISM: Homo sapien
US-09-854-133-345

Query Match 78.9%; Score 15; DB 4; Length 498;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGTA 16

Db 340 ATTATTGATTCTGTA 354

RESULT 8

US-09-949-016-69808/c
Sequence 69808, Application US/09949016
Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 69808
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-69808

Query Match 78.9%; Score 15; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGTA 16
Db 381 ATTATTGATTCTGTA 367

RESULT 9

US-09-949-016-2056
Sequence 2056, Application US/09949016
Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2056
LENGTH: 2070
TYPE: DNA
ORGANISM: Human
US-09-949-016-2056

Query Match 78.9%; Score 15; DB 4; Length 2070;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGTA 16
Db 249 ATTATTGATTCTGTA 263

RESULT 10

US-09-949-016-15108/c
; Sequence 15108, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15108
; LENGTH: 21125
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(21125)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15108

Query Match 78.9%; Score 15; DB 4; Length 21125;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGG 18
|||||
Db 9015 TATTGATTCTGTAGG 9001

RESULT 11
US-09-949-016-13798
; Sequence 13798, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13798
; LENGTH: 39318
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13798

Query Match 78.9%; Score 15; DB 4; Length 39318;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGTA 16
|||||
Db 2249 ATTATTGATTCTGTA 2263

RESULT 12
US-09-949-016-17416/c

; Sequence 17416, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17416
; LENGTH: 51161
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17416

Query Match 78.9%; Score 15; DB 4; Length 51161;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTAG 17
|||||
Db 328 TTATTGATTCTGTAG 314

RESULT 13
US-09-134-001C-250
; Sequence 250, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 250
; LENGTH: 315
; TYPE: DNA
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-250

Query Match 73.7%; Score 14; DB 3; Length 315;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
|||||
Db 209 TTATTGATTCTGTA 222

RESULT 14
US-09-615-192A-357
; Sequence 357, Application US/09615192A
; Patent No. 6410718
; GENERAL INFORMATION:
; APPLICANT: Bloksberg, Leonard N.
; APPLICANT: Havukkala, Ilkka
; TITLE OF INVENTION: Materials and Methods for the
; TITLE OF INVENTION: Modification of Plant Lignin Content
; FILE REFERENCE: 11000.1003c4U

```
; CURRENT APPLICATION NUMBER: US/09/615,192A
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 08/975,316
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: US 08/713,000
; PRIOR FILING DATE: 1996-09-11
; PRIOR APPLICATION NUMBER: US 09/169,789
; PRIOR FILING DATE: 1998-10-09
; NUMBER OF SEQ ID NOS: 405
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 357
; LENGTH: 373
; TYPE: DNA
; ORGANISM: Eucalyptus grandis
US-09-615-192A-357
```

```
Query Match 73.7%; Score 14; DB 3; Length 373;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 ATTATTGATTCTGT 15
| | | | | | | | | | | | | | |
Db 344 ATTATTGATTCTGT 357
```

```
RESULT 15
US-09-328-352-3288
; Sequence 3288, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 3288
; LENGTH: 594
; TYPE: DNA
; ORGANISM: Acinetobacter baumannii
US-09-328-352-3288
```

```
Query Match 73.7%; Score 14; DB 4; Length 594;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 3 TTATTGATTCTGTA 16
| | | | | | | | | | | | | | |
Db 106 TTATTGATTCTGTA 119
```

```
RESULT 16
US-09-949-016-27232/c
; Sequence 27232, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27232
; LENGTH: 601
```

```
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-27232

Query Match 73.7%; Score 14; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AATTATTGATTCTG 14
| | | | | | | | | | | | | | |
Db 57 AATTATTGATTCTG 44
```

```
RESULT 17
US-09-949-016-81772
; Sequence 81772, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81772
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-81772
```

```
Query Match 73.7%; Score 14; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AATTATTGATTCTG 14
| | | | | | | | | | | | | | |
Db 506 AATTATTGATTCTG 519
```

```
RESULT 18
US-09-949-016-122846/c
; Sequence 122846, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122846
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-122846

Query Match 73.7%; Score 14; DB 4; Length 601;
```

Best Local Similarity 100.0%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTG 14
|||||
Db 434 AATTATTGATTCTG 421

RESULT 19
US-09-949-016-130732/c
; Sequence 130732, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 130732
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-130732

Query Match 73.7%; Score 14; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTG 14
|||||
Db 434 AATTATTGATTCTG 421

RESULT 20
US-09-949-016-160756/c
; Sequence 160756, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 160756
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-160756

Query Match 73.7%; Score 14; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTG 14
|||||

Db 57 AATTATTGATTCTG 44

RESULT 21
US-09-543-681A-4127
; Sequence 4127, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4127
; LENGTH: 900
; TYPE: DNA
; ORGANISM: Proteus mirabilis
US-09-543-681A-4127

Query Match 73.7%; Score 14; DB 4; Length 900;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTG 14
|||||
Db 717 AATTATTGATTCTG 730

RESULT 22
US-09-248-796A-1645/c
; Sequence 1645, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 1645
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-1645

Query Match 73.7%; Score 14; DB 4; Length 987;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAG 17
|||||
Db 613 TATTGATTCTGTAG 600

RESULT 23
US-09-248-796A-4531
; Sequence 4531, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A

; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 4531
; LENGTH: 1131
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-4531

Query Match 73.7%; Score 14; DB 4; Length 1131;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTG 14
|||||
Db 354 AATTATTGATTCTG 367

RESULT 24
US-09-178-115-110/c
; Sequence 110, Application US/09178115
; Patent No. 6297041
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; FILE REFERENCE: D-0021.5A
; CURRENT APPLICATION NUMBER: US/09/178,115
; CURRENT FILING DATE: 1998-10-23
; EARLIER APPLICATION NUMBER: 09/177,776
; EARLIER FILING DATE: 1998-10-23
; EARLIER APPLICATION NUMBER: 08/787,739
; EARLIER FILING DATE: 1997-01-24
; EARLIER APPLICATION NUMBER: 08/485,049
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/486,756
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/477,504
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/481,658
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/485,862
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/487,077
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/260,190
; EARLIER FILING DATE: 1994-06-15
; EARLIER APPLICATION NUMBER: 08/177,093
; EARLIER FILING DATE: 1993-12-30
; EARLIER APPLICATION NUMBER: 07/964,589
; EARLIER FILING DATE: 1992-10-21
; EARLIER APPLICATION NUMBER: PV-709-92
; EARLIER FILING DATE: 1992-03-11
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 110
; LENGTH: 1247
; TYPE: DNA
; ORGANISM: HUMAN
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1247)
US-09-178-115-110

Query Match 73.7%; Score 14; DB 3; Length 1247;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ATTATTGATTCTGT 15
|||||
Db 810 ATTATTGATTCTGT 797

RESULT 25
US-09-177-776-110/c
; Sequence 110, Application US/09177776A
; Patent No. 6297051
; GENERAL INFORMATION:
; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; FILE REFERENCE: D-0021.5A
; CURRENT APPLICATION NUMBER: US/09/177,776A
; CURRENT FILING DATE: 1998-10-23
; EARLIER APPLICATION NUMBER: 08/787,739
; EARLIER FILING DATE: 1997-01-24
; EARLIER APPLICATION NUMBER: 08/485,049
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/486,756
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/477,504
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/481,658
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/485,862
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/485,863
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/487,077
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/260,190
; EARLIER FILING DATE: 1994-06-15
; EARLIER APPLICATION NUMBER: 08/177,093
; EARLIER FILING DATE: 1993-12-30
; EARLIER APPLICATION NUMBER: 07/964,589
; EARLIER FILING DATE: 1992-10-21
; EARLIER APPLICATION NUMBER: PV-709-92
; EARLIER FILING DATE: 1992-03-11
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 110
; LENGTH: 1247
; TYPE: DNA
; ORGANISM: HUMAN
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1247)
US-09-177-776-110

Query Match 73.7%; Score 14; DB 3; Length 1247;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ATTATTGATTCTGT 15
|||||
Db 810 ATTATTGATTCTGT 797

RESULT 26
US-09-134-000C-2709/c
; Sequence 2709, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13

; TITLE OF INVENTION: AGAINST PARAINFLUENZA VIRUS AND RESPIRATORY
; TITLE OF INVENTION: SYNCYTIAL VIRUS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/852,344D
; FILING DATE: 07-MAY-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/344,639
; FILING DATE: 14-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9200117.1
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: STEWART, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-688 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1617 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-852-344D-25
;
Query Match 73.7%; Score 14; DB 3; Length 1617;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 3 TTATTGATTCTGTA 16
| | | | | | | | | |
Db 787 TTATTGATTCTGTA 774
;
RESULT 30
US-08-344-639E-25/c
; Sequence 25, Application US/08344639E
; Patent No. 6033668
; GENERAL INFORMATION:
; APPLICANT: Klein, Michel H
; APPLICANT: Du, Run-Pan
; APPLICANT: Ewasyshyn, Mary E
; TITLE OF INVENTION: CHIMERIC PROTEIN WHICH CONFERS
; TITLE OF INVENTION: PROTECTION AGAINST PARAINFLUENZA VIRUS
; TITLE OF INVENTION: AND RESPIRATORY SYNCYTIAL VIRUS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 330 University Avenue, 6th Floor
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/344,639E
; FILING DATE: 14-NOV-1994
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/001,554
; FILING DATE: 06-JAN-1993
; CLASSIFICATION: 424
; APPLICATION NUMBER: GB 9200117.1
; FILING DATE: 06-JAN-1992
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-391 MIS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; TELEX: 065-24567 SIMBAS
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1617 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-344-639E-25
;
Query Match 73.7%; Score 14; DB 3; Length 1617;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 3 TTATTGATTCTGTA 16
| | | | | | | | | |
Db 787 TTATTGATTCTGTA 774
;
RESULT 31
US-08-467-963C-1/c
; Sequence 1, Application US/08467963C
; Patent No. 5968776
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Michel H
; APPLICANT: DU, Run-Pan
; APPLICANT: EWASYSHYN, Mary E
; TITLE OF INVENTION: MULTIMERIC HYBRID GENE ENCODING A
; TITLE OF INVENTION: CHIMERIC PROTEIN WHICH CONFERS PROTECTION AGAINST
; TITLE OF INVENTION: PARAINFLUENZA VIRUS AND RESPIRATORY SYNCYTIAL VIRUS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,963C
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/838,189
; FILING DATE: 16-APR-1997
; APPLICATION NUMBER: US 08/001,554
; FILING DATE: 06-JAN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9200117.1
; FILING DATE: 06-JAN-1992

```

; ATTORNEY/AGENT INFORMATION:
; NAME: STEWART, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-474 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1844 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-467-963C-1

Query Match 73.7%; Score 14; DB 2; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
| | | | | | | | | |
Db 970 TTATTGATTCTGTA 957

RESULT 32
US-08-838-189D-1/c
; Sequence 1, Application US/08838189D
; Patent No. 5998169
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Michel H
; APPLICANT: DU, Run-Pan
; APPLICANT: EWASYSHYN, Mary E
; TITLE OF INVENTION: MULTIMERIC HYBRID GENE ENCODING A
; TITLE OF INVENTION: CHIMERIC PROTEIN WHICH CONFERS PROTECTION AGAINST
; TITLE OF INVENTION: PARAINFLUENZA VIRUS AND RESPIRATORY SYNCYTIAL VIRUS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/838,189D
; FILING DATE: 16-APR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/001,554
; FILING DATE: 06-JAN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9200117.1
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: STEWART, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-687 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1844 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
;

```

```

US-08-838-189D-1
Query Match 73.7%; Score 14; DB 2; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
| | | | | | | | | |
Db 970 TTATTGATTCTGTA 957

RESULT 33
US-08-852-344D-1/c
; Sequence 1, Application US/08852344D
; Patent No. 6017539
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Michel H
; APPLICANT: DU, Run-Pan
; APPLICANT: EWASYSHYN, Mary E
; TITLE OF INVENTION: CHIMERIC PROTEIN WHICH CONFERS PROTECTION
; TITLE OF INVENTION: AGAINST PARAINFLUENZA VIRUS AND RESPIRATORY
; TITLE OF INVENTION: SYNCYTIAL VIRUS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/852,344D
; FILING DATE: 07-MAY-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/344,639
; FILING DATE: 14-NOV-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9200117.1
; FILING DATE: 06-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: STEWART, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-688 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1844 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-852-344D-1

Query Match 73.7%; Score 14; DB 3; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
| | | | | | | | | |
Db 970 TTATTGATTCTGTA 957

RESULT 34
US-08-344-639E-1/c
; Sequence 1, Application US/08344639E
;

```

```
Patent No. 6033668
; GENERAL INFORMATION:
; APPLICANT: Klein, Michel H
; APPLICANT: Du, Run-Pan
; APPLICANT: Ewasysbyn, Mary E
; TITLE OF INVENTION: CHIMERIC PROTEIN WHICH CONFERS
; TITLE OF INVENTION: PROTECTION AGAINST PARAINFLUENZA VIRUS
; TITLE OF INVENTION: AND RESPIRATORY SYNCYTIAL VIRUS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 330 University Avenue, 6th Floor
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/344,639E
; FILING DATE: 14-NOV-1994
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/001,554
; FILING DATE: 06-JAN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9200117.1
; FILING DATE: 06-JAN-1992
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-391 MIS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; TELEX: 065-24567 SIMBAS
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1844 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-344-639E-1

Query Match 73.7%; Score 14; DB 3; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTA 16
Db 970 TTATTGATTCTGTA 957

RESULT 35
US-08-467-969A-1/c
; Sequence 1, Application US/08467969A
; Patent No. 6168786
; GENERAL INFORMATION:
; APPLICANT: Klein, Michel H
; APPLICANT: Du, Run-Pan
; APPLICANT: Ewasysbyn, Mary E
; TITLE OF INVENTION: Chimeric Immunogens
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 330 University Avenue, 6th Floor
; CITY: Toronto
```

```
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,969A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/001,554
FILING DATE: 06-JAN-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9200117.1
FILING DATE: 06-JAN-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-475 MIS:bh
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
TELEX: 065-24567 SIMBAS
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1844 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-467-969A-1

Query Match 73.7%; Score 14; DB 3; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTA 16
Db 970 TTATTGATTCTGTA 957

RESULT 36
US-08-467-961A-1/c
; Sequence 1, Application US/08467961A
; Patent No. 6171783
; GENERAL INFORMATION:
; APPLICANT: Klein, Michel H
; APPLICANT: Du, Run-Pan
; APPLICANT: Ewasysbyn, Mary E
; TITLE OF INVENTION: Chimeric Immunogens
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 330 University Avenue, 6TH Floor
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/467,961A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
```


APPLICATION NUMBER: US 08/001,554
FILING DATE: 06-JAN-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9200117.1
FILING DATE: 06-JAN-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-476 MIS:bh
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
TELEX: 065-24567 SIMBAS
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1844 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-467-961A-1

Query Match 73.7%; Score 14; DB 3; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
|||
Db 970 TTATTGATTCTGTA 957

RESULT 37

US-08-001-554A-1/c
Sequence 1, Application US/08001554A
Patent No. 6225091

GENERAL INFORMATION:
APPLICANT: Klein, Michel H
APPLICANT: Du, Run-Pan
APPLICANT: Ewasbyhyn, Mary E
TITLE OF INVENTION: Chimeric Immunogens
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 330 University Avenue, 6th Floor
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/001,554A
FILING DATE: 06-JAN-1993
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-286
TELEPHONE: (416) 595-1155
TELEFAX: (416) 595-1163
TELEX: 065-24567 SIMBAS

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1844 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
US-08-001-554A-1

Query Match 73.7%; Score 14; DB 3; Length 1844;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
|||
Db 970 TTATTGATTCTGTA 957

RESULT 38

US-09-617-594A-3
Sequence 3, Application US/09617594A
Patent No. 6541458

GENERAL INFORMATION:

APPLICANT: Audonnet, et al.
TITLE OF INVENTION: FELINE CALICIVIRUS GENES AND VACCINES IN PARTICULAR RECOMBINANT V
FILE REFERENCE: 454313-3151.1
CURRENT APPLICATION NUMBER: US/09/617,594A
CURRENT FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/193,332
PRIOR FILING DATE: 2000-03-30

PRIOR APPLICATION NUMBER: France 00 01761
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: France 99 09421
PRIOR FILING DATE: 1999-07-16
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3

LENGTH: 2007
TYPE: DNA
ORGANISM: Feline calicivirus
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(2004)

OTHER INFORMATION: coding sequence of the "capsid" protein of FCV 431 strain

US-09-617-594A-3

Query Match 73.7%; Score 14; DB 4; Length 2007;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTG 14
|||
Db 1830 AATTATTGATTCTG 1843

RESULT 39

US-09-023-655-1080
Sequence 1080, Application US/09023655
Patent No. 6607879

GENERAL INFORMATION:

APPLICANT: Cocks, Benjamin G.

APPLICANT: Susan G. Stuart

APPLICANT: Jeffrey J. Seilhamer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

TITLE OF INVENTION: EXPRESSION

NUMBER OF SEQUENCES: 1508

CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/023,655
FILING DATE: HERewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0001 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1080:
SEQUENCE CHARACTERISTICS:
LENGTH: 2354 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE: GENBANK
LIBRARY: 182573
CLONE: g182573
US-09-023-655-1080

Query Match 73.7%; Score 14; DB 4; Length 2354;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
Db 2311 TTATTGATTCTGTA 2324

RESULT 40

US-08-787-739-58/c
Sequence 58, Application US/08787739
Patent No. 6027887
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street, Suite 610
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/787,739
FILING DATE: 24-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,756
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/481,658
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,862

FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,863
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/487,077
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 58:
SEQUENCE CHARACTERISTICS:
LENGTH: 2501 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: MN genomic region between pMN1 and
DESCRIPTION: Bcl3 assumed to contain regulatory
DESCRIPTION: elements
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-787-739-58

Query Match 73.7%; Score 14; DB 3; Length 2501;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGT 15
Db 2131 ATTATTGATTCTGT 2118

RESULT 41

US-09-178-115-58/c
Sequence 58, Application US/09178115
Patent No. 6297041
GENERAL INFORMATION:
APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
FILE REFERENCE: D-0021.5A
CURRENT APPLICATION NUMBER: US/09/178,115
CURRENT FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 09/177,776
EARLIER FILING DATE: 1998-10-23
EARLIER APPLICATION NUMBER: 08/787,739
EARLIER FILING DATE: 1997-01-24
EARLIER APPLICATION NUMBER: 08/485,049
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/486,756
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/477,504
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/481,658
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,862
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/485,863
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/487,077
EARLIER FILING DATE: 1995-06-07
EARLIER APPLICATION NUMBER: 08/260,190
EARLIER FILING DATE: 1994-06-15
EARLIER APPLICATION NUMBER: 08/177,093
EARLIER FILING DATE: 1993-12-30
EARLIER APPLICATION NUMBER: 07/964,589
EARLIER FILING DATE: 1992-10-21

; EARLIER APPLICATION NUMBER: PV-709-92
; EARLIER FILING DATE: 1992-03-11
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58
; LENGTH: 2501
; TYPE: DNA
; ORGANISM: HUMAN
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(2501)
US-09-178-115-58

Query Match 73.7%; Score 14; DB 3; Length 2501;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGT 15
|||||
Db 2131 ATTATTGATTCTGT 2118

RESULT 42

US-09-177-776-58/c
; Sequence 58, Application US/09177776A
; Patent No. 6297051
; GENERAL INFORMATION:

; APPLICANT: Zavada, Jan
; APPLICANT: Pastorekova, Silvia
; APPLICANT: Pastorek, Jaromir
; TITLE OF INVENTION: MN Gene and Protein
; FILE REFERENCE: D-0021.5A
; CURRENT APPLICATION NUMBER: US/09/177,776A
; CURRENT FILING DATE: 1998-10-23

; EARLIER APPLICATION NUMBER: 08/787,739
; EARLIER FILING DATE: 1997-01-24
; EARLIER APPLICATION NUMBER: 08/485,049
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/486,756
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/477,504
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/481,658
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/485,862
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/485,863
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/487,077
; EARLIER FILING DATE: 1995-06-07
; EARLIER APPLICATION NUMBER: 08/260,190
; EARLIER FILING DATE: 1994-06-15
; EARLIER APPLICATION NUMBER: 08/177,093
; EARLIER FILING DATE: 1993-12-30
; EARLIER APPLICATION NUMBER: 07/964,589
; EARLIER FILING DATE: 1992-10-21
; EARLIER APPLICATION NUMBER: PV-709-92
; EARLIER FILING DATE: 1992-03-11
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58
; LENGTH: 2501
; TYPE: DNA
; ORGANISM: HUMAN
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(2501)
US-09-177-776-58

Query Match 73.7%; Score 14; DB 3; Length 2501;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGT 15
|||||
Db 2131 ATTATTGATTCTGT 2118

RESULT 43

US-09-174-937-7
; Sequence 7, Application US/09174937
; Patent No. 6756212
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran
; TITLE OF INVENTION: Isolated Proteins and Nucleic Acid Molecules Having
; TITLE OF INVENTION: Homology to NIP2 Proteins and Uses Thereof
; FILE REFERENCE: mni061
; CURRENT APPLICATION NUMBER: US/09/174,937
; CURRENT FILING DATE: 1998-10-19
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 2966
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (56)..(433)
US-09-174-937-7

Query Match 73.7%; Score 14; DB 4; Length 2966;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 TTGATTCTGTAGGT 19
|||||
Db 1787 TTGATTCTGTAGGT 1800

RESULT 44

US-09-710-279-3700/c
; Sequence 3700, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3700
; LENGTH: 3272
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-09-710-279-3700

Query Match 73.7%; Score 14; DB 4; Length 3272;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTA 16
|||||
Db 1769 TTATTGATTCTGTA 1756

RESULT 45

US-08-787-739-90/c
; Sequence 90, Application US/08787739
; Patent No. 6027887
; GENERAL INFORMATION:

APPLICANT: Zavada, Jan
APPLICANT: Pastorekova, Silvia
APPLICANT: Pastorek, Jaromir
TITLE OF INVENTION: MN Gene and Protein
NUMBER OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leona L. Lauder
STREET: 369 Pine Street, Suite 610
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/787,739
FILING DATE: 24-JAN-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,049
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/486,756
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/477,504
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/481,658
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,862
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,863
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/487,077
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lauder, Leona L.
REGISTRATION NUMBER: 30,863
REFERENCE/DOCKET NUMBER: D-0021.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-981-2034
TELEFAX: 415-981-0332
INFORMATION FOR SEQ ID NO: 90:
SEQUENCE CHARACTERISTICS:
LENGTH: 3532 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
DESCRIPTION: position 7 to position 3538 of
DESCRIPTION: Figure 2A-2F
US-08-787-739-90

Query Match 73.7%; Score 14; DB 3; Length 3532;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ATTATTGATCTGT 15
Db 2131 ATTATTGATCTGT 2118

Search completed: April 26, 2005, 16:56:41
Job time : 139 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 26, 2005, 11:52:57 ; Search time 1816 Seconds
(without alignments)
506.965 Million cell updates/sec

Title: US-10-619-906-5
Perfect score: 19
Sequence: 1 aattattgattctgtaggt 19
Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 4708233 seqs, 24227607955 residues
Word size : 0
Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : GenEmbl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES				Query		Description	
Result No.	Score	Match	Length	DB	ID		
C 1	19	100.0	458	6	AX393790	Sequence	AX393790 Sequence
C 2	19	100.0	1410	6	AR143096	Sequence	AR143096 Sequence
C 3	19	100.0	1653	6	AX481487	Sequence	AX481487 Sequence
C 4	19	100.0	1778	6	CQ833974	Sequence	CQ833974 Sequence
C 5	19	100.0	1778	6	AX329930	Sequence	AX329930 Sequence
C 6	19	100.0	1778	6	AX330492	Sequence	AX330492 Sequence
C 7	19	100.0	1778	6	AX332571	Sequence	AX332571 Sequence
C 8	19	100.0	1778	6	AX333645	Sequence	AX333645 Sequence
C 9	19	100.0	1778	6	AX334317	Sequence	AX334317 Sequence
C 10	19	100.0	1778	6	AX393829	Sequence	AX393829 Sequence
C 11	19	100.0	1778	6	AX409532	Sequence	AX409532 Sequence
C 12	19	100.0	1778	6	AX663647	Sequence	AX663647 Sequence
C 13	19	100.0	1778	9	HUMHME	L23808 Human metal	L23808 Human metal
C 14	19	100.0	1780	6	CQ730208	Sequence	CQ730208 Sequence
C 15	17	89.5	47	6	AR290617	Sequence	AR290617 Sequence
C 16	17	89.5	1146	1	BCE304815	Sequence	AJ304815 Bacillus
C 17	17	89.5	1146	1	BCE304816	Sequence	AJ304816 Bacillus
C 18	17	89.5	73353	2	AC101422	Sequence	AC101422 Mus muscu
C 19	17	89.5	87206	9	HS188H10	Sequence	AL021451 Human DNA

C 20	17	89.5	92611	9	AC006398	AC006398 Homo sapi
C 21	17	89.5	101443	9	AC091621	AC091621 Papio anu
C 22	17	89.5	110000	2	LMFLCHR31_02	Continuation (3 of
C 23	17	89.5	140805	2	AC092456	AC092456 Homo sapi
C 24	17	89.5	150070	2	AC007670	AC007670 Homo sapi
C 25	17	89.5	153270	2	AC091661	AC091661 Pan trogl
C 26	17	89.5	154436	9	AC098817	AC098817 Homo sapi
C 27	17	89.5	157800	2	AL357074	AL357074 Homo sapi
C 28	17	89.5	159790	2	AC013613	AC013613 Homo sapi
C 29	17	89.5	164958	9	AC099340	AC099340 Homo sapi
C 30	17	89.5	172263	2	AC119280	AC119280 Mus muscu
C 31	17	89.5	182644	9	AC098811	AC098811 Papio anu
C 32	17	89.5	183774	2	AC102150	AC102150 Mus muscu
C 33	17	89.5	194648	2	AC133083	AC133083 Mus muscu
C 34	17	89.5	196915	10	AL929408	AL929408 Mouse DNA
C 35	17	89.5	199373	2	AC119027	AC119027 Rattus no
C 36	17	89.5	204308	2	AC138676	AC138676 Mus muscu
C 37	17	89.5	210358	2	AC148095	AC148095 Mus muscu
C 38	17	89.5	213348	10	AC134898	AC134898 Mus muscu
C 39	17	89.5	221618	2	AC098411	AC098411 Rattus no
C 40	17	89.5	235315	2	AC103654	AC103654 Mus muscu
C 41	17	89.5	241151	2	AC125675	AC125675 Rattus no
C 42	17	89.5	256265	2	AC122943	AC122943 Rattus no
C 43	17	89.5	273331	2	AC110676	AC110676 Rattus no
C 44	17	89.5	292913	2	AC106456	AC106456 Rattus no
C 45	17	89.5	300854	1	AE017014	AE017014 Bacillus

ALIGNMENTS

RESULT 1
AX393790/c
LOCUS AX393790 458 bp DNA linear PAT 23-MAR-2002
DEFINITION Sequence 179 from Patent WO0212329.
ACCESSION AX393790
VERSION AX393790.1 GI:19701757
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Wang, T. and Fan, L.
TITLE Compositions and methods for the therapy and diagnosis of head and neck cancer
JOURNAL Patent: WO 0212329-A 179 14-FEB-2002;
CORIXA CORPORATION (US)
FEATURES
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/organism="Homo sapiens"
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Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTGTAGGT 19
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Db 348 AATTATTGATTCTGTAGGT 330

RESULT 2.

AR143096/c
LOCUS AR143096 1410 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 1 from patent US 6204043.
ACCESSION AR143096
VERSION AR143096.1 GI:15104382
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
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Db 373 AATTATTGATTCTGTAGGT 355

RESULT 7
AX332571/c 1778 bp DNA linear PAT 09-JAN-2002
LOCUS
DEFINITION Sequence 3080 from Patent WO0194629.
ACCESSION AX332571
VERSION AX332571.1 GI:18123205

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horrigan,S., Soppet,D.R. and Weaver,Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets

JOURNAL Patent: WO 0194629-A 3080 13-DEC-2001;
Avalon Pharmaceuticals (US)

FEATURES
source
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ORIGIN

Query Match 100.0%; Score 19; DB 6; Length 1778;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
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Db 373 AATTATTGATTCTGTAGGT 355

RESULT 8
AX333645/c 1778 bp DNA linear PAT 09-JAN-2002
LOCUS
DEFINITION Sequence 4154 from Patent WO0194629.
ACCESSION AX333645
VERSION AX333645.1 GI:18124364

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horrigan,S., Soppet,D.R. and Weaver,Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets

JOURNAL Patent: WO 0194629-A 4154 13-DEC-2001;
Avalon Pharmaceuticals (US)

FEATURES
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Qy 1 AATTATTGATTCTGTAGGT 19
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Db 373 AATTATTGATTCTGTAGGT 355

RESULT 9
AX334317/c 1778 bp DNA linear PAT 09-JAN-2002
LOCUS
DEFINITION Sequence 4826 from Patent WO0194629.
ACCESSION AX334317
VERSION AX334317.1 GI:18125036

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horrigan,S., Soppet,D.R. and Weaver,Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets

JOURNAL Patent: WO 0194629-A 4826 13-DEC-2001;
Avalon Pharmaceuticals (US)

FEATURES
source
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ORIGIN

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Db 373 AATTATTGATTCTGTAGGT 355

RESULT 10
AX393829/c 1778 bp DNA linear PAT 23-MAR-2002
LOCUS
DEFINITION Sequence 218 from Patent WO0212329.
ACCESSION AX393829
VERSION AX393829.1 GI:19701796

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
AUTHORS Wang,T. and Fan,L.
TITLE Compositions and methods for the therapy and diagnosis of head and
neck cancer

JOURNAL Patent: WO 0212329-A 218 14-FEB-2002;
CORIXA CORPORATION (US)

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Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
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Db 373 AATTATTGATTCTGTAGGT 355

RESULT 11

AX409532/c
LOCUS AX409532 1778 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 2179 from Patent WO229103.
ACCESSION AX409532
VERSION AX409532.1 GI:21442237
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS Alvares,C., Horne,D., Peres-da-Silva,S. and Vockley,J.G.
TITLE Gene expression profiles in liver cancer
JOURNAL Patent: WO 0229103-A 2179 11-APR-2002;
GENE LOGIC INC (US)
FEATURES
source Location/Qualifiers
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/note="EMBL/GenBank Accession No. L23808"
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Best Local Similarity 100.0%; Pred. No. 5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTGTAGGT 19
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Db 373 AATTATTGATTCTGTAGGT 355
RESULT 12
AX663647/c
LOCUS AX663647 1778 bp DNA linear PAT 22-MAR-2003
DEFINITION Sequence 22 from Patent WO2097127.
ACCESSION AX663647
VERSION AX663647.1 GI:29163855
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS Oellers,N., Gehrman,M., Kallabis,H., Hall,R., Schulze,T. and
Kroegel,C.
TITLE Genes and proteins for prevention, prediction, diagnosis, prognosis
and treatment of chronic lung disease
JOURNAL Patent: WO 02097127-A 22 05-DEC-2002;
Bayer Aktiengesellschaft (DE)
FEATURES
source Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AATTATTGATTCTGTAGGT 19
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Db 373 AATTATTGATTCTGTAGGT 355
RESULT 13
HUMHME/c
LOCUS HUMHME 1778 bp mRNA linear PRI 31-DEC-1994
DEFINITION Human metalloproteinase (HME) mRNA, complete cds.
ACCESSION L23808
VERSION L23808.1 GI:435969
KEYWORDS metalloproteinase.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1778)
REFERENCE
AUTHORS Shapiro,S.D., Kobayashi,D.K. and Ley,T.J.
TITLE Cloning and characterization of a unique elastolytic
metalloproteinase produced by human alveolar macrophages
J. Biol. Chem. 268 (32), 23824-23829 (1993)
MEDLINE 94043200
PUBMED 8226919
COMMENT Original source text: Homo sapiens adult cDNA to mRNA.
FEATURES
source Location/Qualifiers
1..1778
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Db 373 AATTATTGATTCTGTAGGT 355
RESULT 14
CQ730208/c
LOCUS CQ730208 1780 bp DNA linear PAT 03-FEB-2004
DEFINITION Sequence 16142 from Patent WO02068579.
ACCESSION CQ730208
VERSION CQ730208.1 GI:42303435
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS Venter,C.J., Adams,M.C., Li,P.W. and Myers,E.W.
TITLE Kits, such as nucleic acid arrays, comprising a majority of
humanexons or transcripts, for detecting expression and other uses
thereof
JOURNAL Patent: WO 02068579-A 16142 06-SEP-2002;
PE Corporation (NY) (US)
FEATURES
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ORIGIN

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* 27892 27991: gap of 100 bp
* 27992 28687: contig of 696 bp in length
* 28688 28787: gap of 100 bp
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* 29486 29585: gap of 100 bp
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* 30358 31053: contig of 696 bp in length
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* 31154 31845: contig of 692 bp in length
* 31846 31945: gap of 100 bp
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* 32650 32749: gap of 100 bp
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* 42227 42326: gap of 100 bp
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* 49542 50259: contig of 718 bp in length
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* 54252 54351: gap of 100 bp
* 54352 55044: contig of 693 bp in length
* 55045 55144: gap of 100 bp

Query Match 89.5%; Score 17; DB 2; Length 73353;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTAGGT 19
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Db 59266 TTATTGATTCTGTAGGT 59250

RESULT 19
HS188H10/c
LOCUS HS188H10 87206 bp DNA linear PRI 04-MAR-2003
DEFINITION Human DNA sequence from clone RP1-188H10 on chromosome 6q22,
complete sequence.
ACCESSION AL021451
VERSION AL021451.1 GI:2815069
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 87206)
AUTHORS Mashreghi-Mohammadi,M.
TITLE Direct Submission
JOURNAL Submitted (04-MAR-2003) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk

During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest, except on the rare
occasion of the clone being a YAC.
The following abbreviations are used to associate primary accession
numbers given in the feature table with their source databases:
Em:, EMBL; Sw:, SWISSPROT; Tr:, TREMBL; Wp:, WORMPEP; Information
on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome 6, constructed by the Sanger Centre Chromosome 6 Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr6
RP1-188H10 is from the library RPCI-1 constructed by the group of
Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
VECTOR: pCYPAC2.

FEATURES
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/clone_lib="RPCI-1"

ORIGIN

Query Match 89.5%; Score 17; DB 9; Length 87206;

Best Local Similarity 100.0%; Pred. No. 28;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTAGGT 19
|||||
Db 30151 TTATTGATTCTGTAGGT 30135

RESULT 20
AC006398/c

LOCUS AC006398 92611 bp DNA linear PRI 08-OCT-2003
DEFINITION Homo sapiens BAC clone CTA-348C20 from 7, complete sequence.
ACCESSION AC006398
VERSION AC006398.2 GI:21322241
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 92611)
Sulston,J.E. and Wilson,R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
99063792
9847074
2 (bases 1 to 92611)
Bauer,C., Gibson,A. and Sun,H.
The sequence of Homo sapiens BAC clone CTA-348C20
Unpublished (2001)
3 (bases 1 to 92611)
Waterston,R.H.
Direct Submission
Submitted (14-JAN-1999) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
4 (bases 1 to 92611)
Waterston,R.
Direct Submission
Submitted (22-JAN-1999) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
5 (bases 1 to 92611)
Waterston,R.
Direct Submission
Submitted (21-DEC-1999) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
6 (bases 1 to 92611)
Waterston,R.
Direct Submission
Submitted (04-JUN-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
7 (bases 1 to 92611)
Waterston,R.
Direct Submission
Submitted (29-APR-2003) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
8 (bases 1 to 92611)
Wilson,R.
Direct Submission
Submitted (08-OCT-2003) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Jun 4, 2002 this sequence version replaced gi:4156132.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu
Contact: sapiens@watson.wustl.edu
----- Summary Statistics
Center project name: H_RG348C20

between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

The sequence of this clone was established as part of a mapping and sequencing collaboration between the NHGRI Chromosome 7 Mapping Project (Eric D. Green, Director), John D. McPherson in the Department of Genetics (Washington University), and the Washington University Genome Sequencing Center. For additional information about the map position of this sequence, see <http://www.nhgri.nih.gov/DIR/CTB/CHR7>, send <mailto:egreen@nhgri.nih.gov>, or see <http://genome.wustl.edu>

SOURCE INFORMATION:

Clone CTA-348C20 is from a release of the human BAC library CITB-HS-A. The library contains cloned DNA from human sperm. See: Shizuya et al., Proc. Natl. Acad. Sci. USA 89:8794-7 (1992); U-J. Kim et al., Genomics 34:213-8 (1996). The clone is available from Research Genetics, Inc. (<http://www.resgen.com>).

VECTOR: pBelobAC11

Selection: chloramphenicol

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is CTA-471E18 the clone sequenced to the right is RP11-463M14. Actual start of this clone is at base position 1 of CTA-348C20 actual end is at base position 92611 of CTA-348C20.

FEATURES

source	Location/Qualifiers
	1. .92611 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /chromosome="7" /map="7" /clone="CTA-348C20" /clone_lib="CITB-HS-A" 300. .480 /rpt_family="MER1_type" 536. .1057 /rpt_family="MER1_type" 1399. .1704 /rpt_family="MaLR" 1932. .2226 /rpt_family="Alu" 2485. .2635 /rpt_family="L1" 4039. .4165 /rpt_family="ERV1" 4324. .4583 /rpt_family="ERV1" 4599. .4703 /rpt_family="ERV1" 8042. .8478 /rpt_family="L1" 8542. .8809 /rpt_family="Alu" 8879. .8941 /rpt_family="MIR" 9101. .9145 /rpt_family="(TAA)n" 9221. .9262 /rpt_family="AT_rich" 9268. .9476 /rpt_family="MIR" 9759. .11034 /rpt_family="ERV1"
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	
repeat_region	

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap

repeat_region 11142. .11311
/rpt_family="ERV1"
repeat_region 11722. .12119
/rpt_family="ERV1"
repeat_region 12345. .12454
/rpt_family="MER2_type"
repeat_region 12455. .12838
/rpt_family="MaLR"
repeat_region 12839. .13227
/rpt_family="MER2_type"
repeat_region 13618. .13846
/rpt_family="MIR"
repeat_region 14052. .14340
/rpt_family="Alu"
repeat_region 14449. .14502
/rpt_family="MIR"
repeat_region 15587. .15641
/rpt_family="(TG)n"
repeat_region 15657. .15738
/rpt_family="MIR"
repeat_region 15899. .16020
/rpt_family="L2"
repeat_region 22241. .22595
/rpt_family="MaLR"
repeat_region 22597. .22653
/rpt_family="(CA)n"
repeat_region 23206. .23366
/rpt_family="L2"
repeat_region 23401. .23773
/rpt_family="MaLR"
repeat_region 27341. .27627
/rpt_family="L1"
repeat_region 27628. .27927
/rpt_family="Alu"
repeat_region 27928. .29009
/rpt_family="L1"
repeat_region 29010. .29363
/rpt_family="MaLR"
repeat_region 30946. .31295
/rpt_family="MaLR"
repeat_region 31296. .32186
/rpt_family="L1"
repeat_region 32187. .32524
/rpt_family="L1"
repeat_region 32741. .33049
/rpt_family="L1"
repeat_region 33050. .33152
/rpt_family="L1"
repeat_region 33136. .33443
/rpt_family="L1"
repeat_region 33510. .33738
/rpt_family="MIR"
repeat_region 35210. .35327
/rpt_family="MIR"
repeat_region 35787. .35814
/rpt_family="AT_rich"
repeat_region 37663. .37694
/rpt_family="AT_rich"
repeat_region 38917. .39027
/rpt_family="L2"
repeat_region 41453. .41689
/rpt_family="L2"
repeat_region 41776. .41820
/rpt_family="MIR"

Query Match 89.5%; Score 17; DB 9; Length 92611;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 ATTATTGATTCTGTAGG 18
DB 82101 ATTATTGATTCTGTAGG 82085

RESULT 21
AC091621/c
LOCUS
DEFINITION
AC091621
VERSION
KEYWORDS
SOURCE
ORGANISM

AC091621 101443 bp DNA linear PRI 04-JAN-2003
Papio anubis clone RP41-57J19, complete sequence.

AC091621
AC091621.4 GI:27497219
HTG.

Papio anubis (olive baboon)

Papio anubis

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Papio.

1 (bases 1 to 101443)

REFERENCE
AUTHORS

Akhter,N., Antonellis,A., Ayele,K., Beckstrom-Sternberg,S.M.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Cariaga,K., Coleman,B., Engle,J., Granite,S., Guan,X., Gupta,J.,
Haghighi,P., Han,J., Hansen,N., Ho,S.-L., Idol,J.R., Karlins,E.,
Laric,P., Lee-Lin,S.-Q., Legaspi,R., Maduro,Q.L., Maduro,V.B.,
Margulies,E.H., Masiello,C., Maskeri,B., McDowell,J.,
Paguirigan,C., Pearson,R., Portnoy,M.E., Prasad,A.,
Reddix-Dugue,N., Schandler,K., Schueler,M.G., Sison,C.,
Stantripop,S., Thomas,J.W., Thomas,P.J., Touchman,J.W., Vogt,J.L.,
Wetherby,K.D., Wiggins,L., Young,A. and Green,E.D.

NISC Comparative Sequencing Initiative

Unpublished

2 (bases 1 to 101443)

Green,E.D.

Direct Submission

Submitted (10-MAY-2001) NIH Intramural Sequencing Center, 8717
Grovemont Circle, Gaithersburg, MD 20877, USA

3 (bases 1 to 101443)

Green,E.D.

Direct Submission

Submitted (04-JAN-2003) NIH Intramural Sequencing Center, 8717
Grovemont Circle, Gaithersburg, MD 20877, USA

On Jan 4, 2003 this sequence version replaced gi:18640641.

COMMENT

----- Genome Center

Center: NIH Intramural Sequencing Center

Center code: NISC

Web site: <http://www.nisc.nih.gov>

Contact: nisc.zoo@nhgri.nih.gov

----- Project Information

Center project name: cci

Center clone name: 057J19

This sequence was finished as follows unless otherwise noted:
all regions were double-stranded, sequenced with an
alternate chemistry, or covered by high quality data
(i.e., phred quality >= 30); an attempt was made to resolve
all sequencing problems, such as compressions and repeats;
all regions were covered by at least one plasmid subclone
or more than one M13 subclone; and the assembly was confirmed
by restriction digest.

CLONE LENGTH: This sequence represents the entire insert of
this clone unless otherwise noted. If there are overlapping
clones, the overlaps are noted in the beginning and end of
the Features section.

FEATURES

source

Location/Qualifiers

1. .101443

/organism="Papio anubis"

/mol_type="genomic DNA"

/db_xref="taxon:9555"

/clone="RP41-57J19"

/clone_lib="RP41"

<1. .31435

misc_feature

/note="this sequence is not the entire insert of clone
RP41-57J19; clone overlaps with GenBank Accession Number
AC092758 (nucleotides 123789-171690) clone RP41-22J16
(center project name ccj); this annotated segment
represents overlap with nucleotides 140269-171690 of
AC092758"

misc_feature 309. .326 /note="single clone coverage"
misc_feature 85858. .>101443 /note="this sequence is not the entire insert of clone RP41-57J19; clone overlaps with GenBank Accession Number AC098811 (nucleotides 1-60859) clone RP41-367L14 (center project name csm); this annotated segment represents overlap with nucleotides 1-15586 of AC098811"

ORIGIN
Query Match 89.5%; Score 17; DB 9; Length 101443;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGTAGG 18
|||||

Db 100356 ATTATTGATTCTGTAGG 100340

RESULT 22
LMFLCHR31_02/c
WPCOMMENT
Sequence split into 22 fragments LOCUS LMFLCHR31 Accession AL499621
Fragment Name Begin End
LMFLCHR31_00 1 110000
LMFLCHR31_01 100001 210000
LMFLCHR31_02 200001 310000
LMFLCHR31_03 300001 410000
LMFLCHR31_04 400001 510000
LMFLCHR31_05 500001 610000
LMFLCHR31_06 600001 710000
LMFLCHR31_07 700001 810000
LMFLCHR31_08 800001 910000
LMFLCHR31_09 900001 1010000
LMFLCHR31_10 1000001 1110000
LMFLCHR31_11 1100001 1210000
LMFLCHR31_12 1200001 1310000
LMFLCHR31_13 1300001 1410000
LMFLCHR31_14 1400001 1510000
LMFLCHR31_15 1500001 1610000
LMFLCHR31_16 1600001 1710000
LMFLCHR31_17 1700001 1810000
LMFLCHR31_18 1800001 1910000
LMFLCHR31_19 1900001 2010000
LMFLCHR31_20 2000001 2110000
LMFLCHR31_21 2100001 2117963
Continuation (3 of 22) of LMFLCHR31 from base 200001 (AL499621 Leishmania major chromosome 1)

Query Match 89.5%; Score 17; DB 2; Length 110000;
Best Local Similarity 100.0%; Pred. No. 27;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTAGGT 19
|||||

Db 77355 TTATTGATTCTGTAGGT 77339

RESULT 23
AC092456
LOCUS AC092456 140805 bp DNA linear HTG 06-JUL-2001
DEFINITION Homo sapiens chromosome CTD clone CTD-2155H16, WORKING DRAFT
SEQUENCE, 23 unordered pieces.
ACCESSION AC092456
VERSION AC092456.1 GI:14625102
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 140805)
Waterston,R.H.
The sequence of Homo sapiens clone
Unpublished

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

2 (bases 1 to 140805)
Waterston,R.H.
Direct Submission
Submitted (06-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site:http://genome.wustl.edu/gsc/index.shtml
----- Project Information -----
Center project name: H_MS2155H16

----- Summary Statistics -----
Sequencing vector: M13; 74%
Sequencing vector: plasmid; 21%
Chemistry: Dye-primer ET; 74% of reads
Chemistry: Dye-terminator Big Dye; 21% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 125167 bases at least Q40
Consensus quality: 130374 bases at least Q30
Consensus quality: 134105 bases at least Q20
Insert size: 106000; agarose-fp
Insert size: 139359; sum-of-contigs
Quality coverage: 4.05 in Q20 bases; agarose-fp
Quality coverage: 3.14 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 23 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 1975: contig of 1975 bp in length
* 1976 2075: gap of unknown length
* 2076 3541: contig of 1466 bp in length
* 3542 3641: gap of unknown length
* 3642 4805: contig of 1164 bp in length
* 4806 4905: gap of unknown length
* 4906 6516: contig of 1611 bp in length
* 6517 6616: gap of unknown length
* 6617 8152: contig of 1536 bp in length
* 8153 8252: gap of unknown length
* 8253 11125: contig of 2873 bp in length
* 11126 11225: gap of unknown length
* 11226 13188: contig of 1963 bp in length
* 13189 13288: gap of unknown length
* 13289 17124: contig of 3836 bp in length
* 17125 17224: gap of unknown length
* 17225 19911: contig of 2687 bp in length
* 19912 20011: gap of unknown length
* 20012 23136: contig of 3125 bp in length
* 23137 23236: gap of unknown length
* 23237 28202: contig of 4966 bp in length
* 28203 28302: gap of unknown length
* 28303 33141: contig of 4839 bp in length
* 33142 33242: gap of unknown length
* 33242 37167: contig of 3926 bp in length
* 37168 37267: gap of unknown length
* 37268 41815: contig of 4548 bp in length
* 41816 41915: gap of unknown length
* 41916 46824: contig of 4909 bp in length
* 46825 52358: contig of 5434 bp in length
* 52359 52458: gap of unknown length
* 52459 58556: contig of 6098 bp in length
* 58557 58656: gap of unknown length
* 58657 65371: contig of 6715 bp in length
* 65372 65471: gap of unknown length
* 65472 72114: contig of 6643 bp in length

* 72115 72214: gap of unknown length
* 72215 81478: contig of 9264 bp in length
* 81479 81578: gap of unknown length
* 81579 90420: contig of 8842 bp in length
* 90421 90520: gap of unknown length
* 90521 113878: contig of 23358 bp in length
* 113879 113978: gap of unknown length
* 113979 140805: contig of 26827 bp in length.

FEATURES

source
1. .140805
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="CTD"
/clone="CTD-2155H16"
1. .1975
/note="assembly_name:Contig27"
2076. .3541
/note="assembly_name:Contig28"
3642. .4805
/note="assembly_name:Contig29"
4906. .6516
/note="assembly_name:Contig32"
6617. .8152
/note="assembly_name:Contig33"
8253. .11125
/note="assembly_name:Contig34"
11226. .13188
/note="assembly_name:Contig35"
13289. .17124
/note="assembly_name:Contig37"
17225. .19911
/note="assembly_name:Contig38"
20012. .23136
/note="assembly_name:Contig39"
23237. .28202
/note="assembly_name:Contig40"
28303. .33141
/note="assembly_name:Contig41"
33242. .37167
/note="assembly_name:Contig42"
37268. .41815
/note="assembly_name:Contig43"
41916. .46824
/note="assembly_name:Contig44"
46925. .52358
/note="assembly_name:Contig45"
52459. .58556
/note="assembly_name:Contig46"
58657. .65371
/note="assembly_name:Contig47"
65472. .72114
/note="assembly_name:Contig48"
72215. .81478
/note="assembly_name:Contig49"
81579. .90420
/note="assembly_name:Contig50"
90521. .113878
/note="assembly_name:Contig51"
113979. .140805
/note="assembly_name:Contig52"

ORIGIN

Query Match 89.5%; Score 17; DB 2; Length 140805;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAG 17
|||||
Db 24869 AATTATTGATTCTGTAG 24885

RESULT 24

AC007670

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

AC007670 150070 bp DNA linear HTG 24-MAR-2000
Homo sapiens clone RP11-14A7, WORKING DRAFT SEQUENCE, 11 unordered
pieces.

AC007670

AC007670.2 GI:7321636

HTG; HTGS_PHASE1; HTGS_DRAFT.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 150070)

Homo sapiens, clone RP11-14A7

Unpublished

2 (bases 1 to 150070)

Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,

Baker,J., Baldwin,J., Barna,N., Beckerly,R., Benn,J., Brown,A.,

Castle,A., Cerny,J., Colangelo,M., Collins,S., Collymore,A.,

Cooke,P., DeArellano,K., Depayre,E., Devon,K., Dewar,K.,

Donelan,L., Doyle,M., Ferreira,P., FitzHugh,W., Forrest,C.,

Funke,R., Gage,D., Galagan,J., Gardyna,S., Gilbert,D., Grant,G.,

Hagos,B., Heaford,A., Horton,L., Howland,J.C., Jones,C., Kann,L.,

Karatas,A., Lehoczy,J., Lieu,C., Locke,K., Macdonald,P.,

Marquis,N., McEwan,P., McGurk,A., McKernan,K., McLaughlin,J.,

Meldrim,J., Molla,M., Morris,W., Morrow,J., Mychaleckyj,J.,

Naylor,J., Niloff,M., O'Connor,T., O'Donnell,P., Pavlin,B.,

Peterson,K., Pollara,V., Riley,R., Roberts,D., Roy,A., Severy,P.,

Stange-Thomann,N., Stojanovic,N., Stone,C., Subramanian,A.,

Tesfaye,S., Torruella-Miller,I., Vassiliev,H., Vo,A., Wagner,A.,

Wheeler,J., Wu,X., Wyman,D., Ye,W.J. and Zody,M.

Direct Submission

Submitted (28-MAY-1999) Whitehead Institute/MIT Center for Genome

Research, 320 Charles Street, Cambridge, MA 02141, USA

On Mar 24, 2000 this sequence version replaced gi:4914394.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: http://www-seq.wi.mit.edu

Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information

Center project name: L783

Center clone name: 14_A_7

----- Summary Statistics

Sequencing vector: M13; M77815; 100% of reads

Chemistry: Dye-terminator Big Dye; 85% of reads

Chemistry: Dye-terminator Big Dye; 15% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 141263 bases at least Q40

Consensus quality: 145915 bases at least Q30

Consensus quality: 147932 bases at least Q20

Insert size: 168000; agarose-fp

Insert size: 149070; sum-of-contigs

Quality coverage: 4.4 in Q20 bases; agarose-fp

Quality coverage: 4.9 in Q20 bases.

* NOTE: This is a 'working draft' sequence. It currently

* consists of 11 contigs. The true order of the pieces

* is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

* as soon as it is available and the accession number will

* be preserved.

* 1 1089: contig of 1089 bp in length

* 1090 1189: gap of 100 bp

* 1190 2281: contig of 1092 bp in length

* 2282 2381: gap of 100 bp

* 2382 6681: contig of 4300 bp in length

* 6682 6781: gap of 100 bp

* 6782 11902: contig of 5121 bp in length

* 11903 12002: gap of 100 bp
* 12003 19315: contig of 7313 bp in length
* 19316 19415: gap of 100 bp
* 19416 27440: contig of 8025 bp in length
* 27441 27540: gap of 100 bp
* 27541 36885: contig of 9345 bp in length
* 36886 36985: gap of 100 bp
* 36986 51343: contig of 14358 bp in length
* 51344 51443: gap of 100 bp
* 51444 65766: contig of 14323 bp in length
* 65767 65866: gap of 100 bp
* 65867 84896: contig of 19030 bp in length
* 84897 84996: gap of 100 bp
* 84997 150070: contig of 65074 bp in length.

FEATURES

source
1. .150070
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/clone="RP11-14A7"
/clone_lib="RPCI-11 Human Male BAC"
1. .1089
/note="assembly_fragment"
1190. .2281
/note="assembly_fragment"
2382. .6681
/note="assembly_fragment"
6782. .11902
/note="assembly_fragment"
12003. .19315
/note="assembly_fragment"
clone_end:T7
vector_side:left
19416. .27440
/note="assembly_fragment"
27541. .36885
/note="assembly_fragment"
clone_end:SP6
vector_side:right
36986. .51343
/note="assembly_fragment"
51444. .65766
/note="assembly_fragment"
65867. .84896
/note="assembly_fragment"
84997. .150070
/note="assembly_fragment"

ORIGIN

Query Match 89.5%; Score 17; DB 2; Length 150070;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAG 17
|||||
Db 48335 AATTATTGATTCTGTAG 48351

RESULT 25
AC091661/c
LOCUS AC091661 153270 bp DNA linear HTG 03-MAY-2002
DEFINITION Pan troglodytes clone RP43-168A12, WORKING DRAFT SEQUENCE, 2
ordered pieces.
AC091661
AC091661.2 GI:20429317
VERSION HTG; HTGS PHASE2; HTGS DRAFT.
KEYWORDS Pan troglodytes (chimpanzee)
SOURCE Pan troglodytes

ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
1 (bases 1 to 153270)
REFERENCE Akther,N., Antonellis,A., Ayele,K., Beckstrom-Sternberg,S.M.,
AUTHORS Benjamin,B., Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C.,

TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Brooks,S., Dietrich,N.L., Granite,S., Guan,X., Gupta,J.,
Haghighi,P., Hansen,N., Ho,S.-L., Idol,J.R., Karlins,E., Lalic,P.,
Lee-Lin,S.-Q., Legaspi,R., Maduro,Q.L., Maduro,V.B.,
Margulies,E.H., Masiello,C., Maskeri,B., Mastrian,S.D.,
McCloskey,J.C., McDowell,J., Paguirigan,C., Pearson,R.,
Portnoy,M.E., Prasad,A., Schueler,M.G., Stantripop,S., Thomas,J.W.,
Thomas,P.J., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
Wetherby,K.D., Wiggins,L., Young,A., Zhang,L.-H. and Green,E.D.
NISC Comparative Sequencing Initiative
Unpublished
2 (bases 1 to 153270)
Green,E.D.
Direct Submission
Submitted (15-MAY-2001) NIH Intramural Sequencing Center, 8717
Grovemont Circle, Gaithersburg, MD 20877, USA
3 (bases 1 to 153270)
Green,E.D.
Direct Submission
Submitted (03-MAY-2002) NIH Intramural Sequencing Center, 8717
Grovemont Circle, Gaithersburg, MD 20877, USA
On May 3, 2002 this sequence version replaced gi:14042998.
----- Genome Center
Center: NIH Intramural Sequencing Center
Center code: NISC
Web site: http://www.nisc.nih.gov
Contact: nisc_zoo@nhgri.nih.gov
----- Project Information
Center project name: ceh
Center clone name: 168A12

The sequence data in this record represents an 'enhanced' version of a Phase 2 submission. Specifically, the indicated order and orientation of each sequence contig has been established using one or more of the following: read-pair data from individual subclones, overlaps with neighboring clones, alignment with available reference sequence (e.g., human), and/or confirmation by PCR testing. In addition, the sequence assembly is based on at least 8X average coverage in Q20 bases and has been reviewed to rule out gross misassemblies, the low-quality ends of sequence contigs have been trimmed away, and each base is associated with a Phrap-derived quality score.

----- Summary Statistics
Sequencing vector: plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 152627 bases at least Q40
Consensus quality: 152987 bases at least Q30
Consensus quality: 153127 bases at least Q20
Insert size: 123000; agarose-fp
Insert size: 153170; sum-of-contigs
Quality coverage: 13.06x in Q20 bases; agarose-fp
Quality coverage: 10.49x in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
* 1 103005: contig of 103005 bp in length
* 103006 103105: gap of unknown length
* 103106 153270: contig of 50165 bp in length.

FEATURES
source
1. .153270
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-168A12"
/clone_lib="RP43"

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misc_feature      1. .103005
/note="assembly_fragment
clone end:T7
vector_side:left"
misc_feature      1. .4283
/note="clone overlaps with GenBank Accession Number
AC091718 clone RP43-184N18 (center project name ceg)"
78757. .153270
/misc_feature      /note="clone overlaps with GenBank Accession Number
AC096879 clone RP43-179H6 (center project name clm)"
103106. .153270
/misc_feature      /note="assembly_fragment
clone end:SP6
vector_side:right"

ORIGIN
Query Match      89.5%; Score 17; DB 2; Length 153270;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 ATTATTGATTCTGTAGG 18
|||||
Db      50279 ATTATTGATTCTGTAGG 50263

RESULT 26
AC098817/c
LOCUS      AC098817      154436 bp      DNA      linear      PRI 21-FEB-2002
DEFINITION      Homo sapiens BAC clone RP11-92A1 from 2, complete sequence.
ACCESSION      AC098817 AC019324
VERSION      AC098817.3 GI:18464265
KEYWORDS      HTG.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 154436)
AUTHORS      Sulston,J.E. and Waterston,R.
TITLE      Toward a complete human genome sequence
JOURNAL      Genome Res. 8 (11), 1097-1108 (1998)
MEDLINE      99063792
PUBMED      9847074
REFERENCE      2 (bases 1 to 154436)
AUTHORS      Isak,A., Cotton,M. and Boyer,E.
TITLE      The sequence of Homo sapiens BAC clone RP11-92A1
JOURNAL      Unpublished (2001)
REFERENCE      3 (bases 1 to 154436)
AUTHORS      Waterston,R.H.
TITLE      Direct Submission
JOURNAL      Submitted (02-NOV-2001) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE      4 (bases 1 to 154436)
AUTHORS      Waterston,R.H.
TITLE      Direct Submission
JOURNAL      Submitted (01-FEB-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE      5 (bases 1 to 154436)
AUTHORS      Waterston,R.
TITLE      Direct Submission
JOURNAL      Submitted (21-FEB-2002) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Feb 1, 2002 this sequence version replaced gi:17647046.
COMMENT      ----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc
Contact: sapiens@watson.wustl.edu
----- Summary Statistics
Center project name: H_NH0092A01
Drafting Center: WIBR
-----
```

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa,K., Woon,P.Y., Zhao,B., Frengen,E., Tatenno,M., Catanese,J.J. and de Jong,P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>
VECTOR: pBACe3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-345F13; the clone sequenced to the right is RP11-1290B4. Actual start of this clone is at base position 1 of RP11-92A1; actual end is at base position 154436 of RP11-92A1.

Data from AC092456 and AC007670 was used to finish this clone, AC098817.

The sequence of AC019324 has been incorporated into AC098817.

FEATURES	Location/Qualifiers
Source	1. .154436 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /chromosome="2" /map="2" /clone="RP11-92A1" /clone_lib="RPCI-11"
repeat_region	630..1089 /rpt_family="ERV1"
repeat_region	1295..1842 /rpt_family="ERV1"
repeat_region	1864..1919 /rpt_family="MaLR"
repeat_region	1920..1950 /rpt_family=" (TTTG)n"
repeat_region	2224..2606 /rpt_family="MaLR"
repeat_region	2747..3376 /rpt_family="ERV1"
repeat_region	3583..3639 /rpt_family="AT_rich"
repeat_region	4256..4319 /rpt_family=" (TAGA)n"
repeat_region	5742..6544 /rpt_family="L1"
repeat_region	6552..6915 /rpt_family="L1"
repeat_region	6921..8756 /rpt_family="L1"
repeat_region	8756..9240 /rpt_family="L1"

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repeat_region 9241. .9310
/rpt_family="L1"
repeat_region 9311. .10462
/rpt_family="L1"
repeat_region 9542. .9563
/rpt_family="AT_rich"
repeat_region 10466. .11792
/rpt_family="L1"
repeat_region 11770. .11811
/rpt_family="AT_rich"
repeat_region 11925. .12123
/rpt_family="MIR"
repeat_region 12234. .12266
/rpt_family="(TG)n"
repeat_region 12295. .12871
/rpt_family="L1"
repeat_region 13506. .13545
/rpt_family="AT_rich"
repeat_region 13683. .13988
/rpt_family="Alu"
repeat_region 14427. .14533
/rpt_family="MaLR"
repeat_region 15067. .15094
/rpt_family="AT_rich"
repeat_region 15544. .15692
/rpt_family="L1"
misc_feature 18589. .18618
/note="similar to Homo sapiens EST BG877852
(NID:g14254942)"
misc_feature 19265. .19715
/note="similar to Homo sapiens EST BF768765
(NID:g12116665)"
misc_feature 19308. .19356
/note="similar to Homo sapiens EST BE879309
(NID:g10328085)"
misc_feature 19308. .19356
/note="similar to Homo sapiens EST BG877217
(NID:g14254307)"
misc_feature 19423. .19778
/note="similar to Homo sapiens EST BF769298
(NID:g12117198)"
misc_feature 19442. .19775
/note="similar to Homo sapiens EST BF769297
(NID:g12117197)"
misc_feature 19449. .19514
/note="similar to Homo sapiens EST BE879309
(NID:g10328085)"
misc_feature 19492. .19514
/note="similar to Homo sapiens EST BG877217
(NID:g14254307)"
misc_feature 19702. .19908
/note="similar to Homo sapiens EST AA577014 (NID:g2354488)
nm84f02.81"
misc_feature 19702. .19793
/note="similar to Homo sapiens EST AL044154
(NID:g5432379)"
misc_feature 19715. .19793
/note="similar to Homo sapiens EST BG877519
(NID:g14254609)"
misc_feature 19717. .19784
/note="similar to Homo sapiens EST BE879309
(NID:g10328085)"
misc_feature 19717. .19778
/note="similar to Homo sapiens EST BG877217
(NID:g14254307)"
misc_feature 19894. .20466
/note="similar to Bos taurus EST BI898628 (NID:g16204051)"
misc_feature 20624. .20766
/note="similar to Homo sapiens EST AW867815
(NID:g8001776)"
misc_feature 20807. .20867
/note="similar to Homo sapiens EST AW867815
(NID:g8001776)"

misc_feature 21020. .21278
/note="similar to Homo sapiens EST AI377331 (NID:g4187184)
te60c10.x1"
misc_feature 21376. .21952
/note="similar to EST BM241349 (NID:g17876619)"
misc_feature 21435. .22319
/note="similar to Mus musculus EST BI692638
(NID:g15655267)"

Query Match 89.5%; Score 17; DB 9; Length 154436;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAG 17
|||||
Db 95117 AATTATTGATTCTGTAG 95101

RESULT 27
AL357074
LOCUS AL357074 157800 bp DNA linear HTG 10-JUL-2001
DEFINITION Homo sapiens chromosome 6 clone RP11-600C19, 6 unordered pieces.
ACCESSION AL357074
VERSION AL357074.3 GI:9863808
KEYWORDS HTG; HTGS_PHASE1; HTGS_CANCELLED.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Burton, J.
TITLE Direct Submission
JOURNAL Submitted (10-JUL-2001) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerequest@sanger.ac.uk
On Aug 21, 2000 this sequence version replaced gi:9214057.
COMMENT ----- Genome Center
Center: Sanger Centre
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: BA600C19
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Sequencing vector: plasmid; L08752; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Consensus quality: 154383 bases at least Q40
Consensus quality: 155475 bases at least Q30
Consensus quality: 156261 bases at least Q20
Insert size: 157300; sum-of-contigs
Insert size: 150139; 8.4% error; agarose-fp
Quality coverage: 4.87x in Q20 bases; sum-of-contigs Quality
coverage: 5.20x in Q20 bases; agarose-fp
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 6 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 14793: contig of 14793 bp in length
* 14794 14893: gap of 100 bp
* 14894 55692: contig of 40799 bp in length
* 55693 55792: gap of 100 bp
* 55793 75176: contig of 19384 bp in length
* 75177 75276: gap of 100 bp
* 75277 123901: contig of 48625 bp in length
* 123902 124001: gap of 100 bp
* 124002 135576: contig of 11575 bp in length
* 135577 135676: gap of 100 bp
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misc_feature 54374. .64630
/note="assembly_fragment"
misc_feature 64731. .78802
/note="assembly_fragment"
misc_feature 78903. .99071
/note="assembly_fragment"
misc_feature 99172. .127231
/note="assembly_fragment"
misc_feature 127332. .152287
/note="assembly_fragment"
misc_feature 152388. .159790
/note="assembly_fragment
clone_end:T7
vector_side:right"

ORIGIN
Query Match      89.5%; Score 17; DB 2; Length 159790;
Best Local Similarity 100.0%; Pred.No. 25;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 TTATTGATTCTGTAGGT 19
      |||||
Db      119355 TTATTGATTCTGTAGGT 119339

RESULT 29
AC099340/c
LOCUS      AC099340      164958 bp      DNA      linear      PRI 29-MAY-2002
DEFINITION Homo sapiens BAC clone RP11-214O14 from 4, complete sequence.
ACCESSION      AC099340 AC024369
VERSION      AC099340.3 GI:20429590
KEYWORDS      HTG.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 164958)
AUTHORS      Sulston,J.E. and Waterston,R.
TITLE      Toward a complete human genome sequence
JOURNAL      Genome Res. 8 (11), 1097-1108 (1998)
MEDLINE      99063792
PUBMED      9847074
REFERENCE      2 (bases 1 to 164958)
AUTHORS      Boatright,E., Kozlowicz,A. and Boyer,E.
TITLE      The sequence of Homo sapiens BAC clone RP11-214O14
JOURNAL      Unpublished (2001)
REFERENCE      3 (bases 1 to 164958)
AUTHORS      Waterston,R.H.
TITLE      Direct Submission
JOURNAL      Submitted (09-NOV-2001) Genome Sequencing Center, Washington
               University School of Medicine, 4444 Forest Park Parkway, St. Louis,
               MO 63108, USA
REFERENCE      4 (bases 1 to 164958)
AUTHORS      Waterston,R.H.
TITLE      Direct Submission
JOURNAL      Submitted (03-MAY-2002) Genome Sequencing Center, Washington
               University School of Medicine, 4444 Forest Park Parkway, St. Louis,
               MO 63108, USA
REFERENCE      5 (bases 1 to 164958)
AUTHORS      Waterston,R.
TITLE      Direct Submission
JOURNAL      Submitted (29-MAY-2002) Department of Genetics, Washington
               University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT      On May 3, 2002 this sequence version replaced gi:17386499.
               ----- Genome Center
               Center: Washington University Genome Sequencing Center
               Center code: WUGSC
               Web site: http://genome.wustl.edu/gsc
               Contact: sapiens@watson.wustl.edu
               ----- Summary Statistics
               -----
               Center project name: H_NH0214O14
               Drafting Center: WIBR
               -----

NOTICE: This sequence may not represent the entire insert of this
clone. It may be shorter because we only sequence overlapping
clone sections once, or longer because we provide a small overlap
between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. John D.
McPherson, Department of Genetics, Washington University, St. Louis
MO. For additional information about the map position of this
sequence, see http://genome.wustl.edu/gsc

SOURCE INFORMATION:
The RPCI-11 human BAC library was made from the blood of one male
donor, as described by Osoegawa,K., Woon,P.Y., Zhao,B., Frengen,E.,
Tateno,M., Catanese,J.J. and de Jong,P.J. (1998) An improved
approach for construction of bacterial artificial chromosome
libraries. Genomics 51:1-8. The clone may be obtained either from
Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong
and coworkers at http://www.chori.org
VECTOR: pBACe3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-398H1; the clone sequenced
to the right is RP11-307L18. Actual start of this clone is at base
position 1 of RP11-214O14; actual end is at base position 164958 of
RP11-214O14.

Polymorphisms exist between AC108045 and AC099340. Data from
AC107053 and AC108045 was used to finish AC099340.

The sequence of AC024369 has been incorporated into AC099340.

FEATURES
source
1. .164958
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="4"
/map="4"
/clone="RP11-214O14"
/clone_lib="RPCI-11"
repeat_region 114. .430
/rpt_family="L1"
repeat_region 441. .529
/rpt_family="Alu"
repeat_region 530. .682
/rpt_family="L1"
repeat_region 683. .998
/rpt_family="Alu"
repeat_region 999. .1069
/rpt_family="L1"
repeat_region 1070. .1106
/rpt_family="AT_rich"
repeat_region 1735. .1787
/rpt_family="MIR"
repeat_region 1791. .2025
/rpt_family="L1"
repeat_region 2034. .2347
/rpt_family="Alu"
repeat_region 2384. .2533
/rpt_family="L1"
repeat_region 2535. .2666
/rpt_family="Alu"
repeat_region 2668. .3178
/rpt_family="ERV1"
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repeat_region 3181. .3543 /rpt_family="L1"
repeat_region 3544. .3774 /rpt_family="L1"
repeat_region 3752. .3898 /rpt_family="L1"
repeat_region 3908. .4293 /rpt_family="L1"
repeat_region 4330. .4636 /rpt_family="MER2_type"
repeat_region 4751. .5062 /rpt_family="Alu"
repeat_region 5268. .5577 /rpt_family="Alu"
repeat_region 5685. .5915 /rpt_family="Alu"
repeat_region 5916. .6071 /rpt_family="L1"
repeat_region 6093. .6183 /rpt_family="L1"
repeat_region 6205. .6369 /rpt_family=" (TCCC)n"
repeat_region 6373. .6618 /rpt_family="Alu"
repeat_region 6709. .7002 /rpt_family="L1"
repeat_region 7003. .7070 /rpt_family="Alu"
repeat_region 7076. .7310 /rpt_family=" (TA)n"
repeat_region 7328. .7558 /rpt_family="L1"
repeat_region 7559. .7835 /rpt_family="Alu"
repeat_region 7836. .8172 /rpt_family="L1"
repeat_region 8180. .8460 /rpt_family="Alu"
repeat_region 8836. .9160 /rpt_family="MaLR"
repeat_region 9161. .9663 /rpt_family="L2"
repeat_region 10587. .10742 /rpt_family="MIR"
repeat_region 11088. .11226 /rpt_family="Alu"
repeat_region 12985. .13139 /rpt_family="MIR"
repeat_region 13977. .14228 /rpt_family="L1"
repeat_region 14229. .14525 /rpt_family="Alu"
repeat_region 14526. .14941 /rpt_family="L1"
repeat_region 14925. .15420 /rpt_family="L1"
repeat_region 15421. .15766 /rpt_family="Alu"
repeat_region 15767. .16239 /rpt_family="L1"
repeat_region 16240. .18114 /rpt_family="L1"
repeat_region 18117. .18219 /rpt_family="Alu"
repeat_region 18230. .18444 /rpt_family="L2"
repeat_region 18668. .19061 /rpt_family="MER2_type"
repeat_region 19062. .19362 /rpt_family="Alu"
repeat_region 19363. .19445 /rpt_family="MER2_type"
repeat_region 19581. .19912

repeat_region /rpt_family="Alu"
19924. .20305 /rpt_family="Alu"
repeat_region 20329. .20926 /rpt_family="L1"
repeat_region 20927. .21239 /rpt_family="Alu"
repeat_region 21240. .21267

Query Match 89.5%; Score 17; DB 9; Length 164958;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTAGGT 19
|||||
Db 70971 TTATTGATTCTGTAGGT 70955
|||||

RESULT 30
AC119280/c
LOCUS AC119280 172263 bp DNA linear HTG 09-MAR-2003
DEFINITION Mus musculus clone RP24-462F23, WORKING DRAFT SEQUENCE, 6 unordered pieces.
ACCESSION AC119280
VERSION AC119280.3 GI:28893724
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
REFERENCE 1 (bases 1 to 172263)
AUTHORS Birren,B., Nusbaum,C. and Lander,E.
TITLE Mus musculus, clone RP24-462F23
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 172263)
AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S., Barna,N., Bastien,V., Bloom,T., Boguslavkiy,L., Boukhgalter,B., Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A., Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., LaRocque,K., Lamazares,R., Landers,T., Lehoczky,J., Levine,R., Lindblad-Toh,K., Liu,G., MacLean,C., Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M., ROY,A., Santos,R., Schauer,S., Schupback,R., Seaman,S., Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N., Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J., Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
TITLE Submitted (25-APR-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
JOURNAL
REFERENCE 3 (bases 1 to 172263)
AUTHORS Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J., Choepel,Y., Collymore,A., Cook,A., Cooke,P., Corum,B., DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S., Ferreira,P., FitzGerald,M., Gage,D., Galagan,J., Gardyna,S., Graham,L., Grand-Pierre,N., Hafez,N., Hagopian,D., Hagos,B., Hall,J., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R., Lindblad-Toh,K., Liu,G., Lui,A., Mabbitt,R., MacLean,C., Macdonald,P., Major,J., Manning,J., Matthews,C., McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J.,

Nguyen,C., Nicol,R., Norbu,C., O'Connor,T., O'Donnell,P.,
O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N.,
Rachupka,A., Ramasamy,U., Raymond,C., Retta,R., Rise,C., Rogov,P.,
Roman,J., Schauer,S., Schupback,R., Seaman,S., Severy,P., Smith,C.,
Spencer,B., Stange-Thomann,N., Stojanovic,N., Stubbs,M.,
Talamas,J., Tesfaye,S., Theodore,J., Topham,K., Travers,M.,
Vassiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X.,
Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (09-MAR-2003) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Mar 9, 2003 this sequence version replaced gi:28626749.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information

Center project name: L25706

Center clone name: 462 F 23

----- Summary Statistics

Sequencing vector: Plasmid; n/a; 100% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 170828 bases at least Q40

Consensus quality: 171526 bases at least Q30

Consensus quality: 171702 bases at least Q20

Insert size: 170000; agarose-fp

Insert size: 171763; sum-of-contigs

Quality coverage: 9.9 in Q20 bases; agarose-fp

Quality coverage: 9.7 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 6 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 1342: contig of 1342 bp in length
* 1343 1442: gap of 100 bp
* 1443 2735: contig of 1293 bp in length
* 2736 2835: gap of 100 bp
* 2836 7640: contig of 4805 bp in length
* 7641 7740: gap of 100 bp
* 7741 18392: contig of 10652 bp in length
* 18393 18492: gap of 100 bp
* 18493 65941: contig of 47449 bp in length
* 65942 66041: gap of 100 bp
* 66042 172263: contig of 106222 bp in length.

FEATURES

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1. .172263
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/clone="RP24-462F23"
/clone_lib="RPCI-24 Male Mouse BAC"
1. .1342
/note="assembly_fragment"
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/note="assembly_fragment"
misc_feature 2836. .7640
/note="assembly_fragment"
misc_feature 7741. .18392
/note="assembly_fragment"
misc_feature 18493. .65941
/note="assembly_fragment"
misc_feature 66042. .172263
/note="assembly_fragment"

clone_end:T7
vector_side:right"

ORIGIN

Query Match 89.5%; Score 17; DB 2; Length 172263;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAG 17

|||||
Db 57734 AATTATTGATTCTGTAG 57718

RESULT 31

AC098811/c

LOCUS

DEFINITION Papio anubis clone RP41-367L14, complete sequence.

AC098811

VERSION AC098811.3 GI:21903573

KEYWORDS HTG.

SOURCE Papio anubis (olive baboon)

ORGANISM

Papio anubis

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;

Cercopitheciinae; Papio.

1 (bases 1 to 182644)

Akhter,N., Antonellis,A., Ayele,K., Beckstrom-Sternberg,S.M.,

Benjamin,B., Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C.,

Brooks,S., Dietrich,N.L., Granite,S., Guan,X., Gupta,J.,

Haghighi,P., Hansen,N., Ho,S.-L., Idol,J.R., Karlins,E., Laric,P.,

Lee-Lin,S.-Q., Legaspi,R., Maduro,Q.L., Maduro,V.B.,

Margulies,E.H., Masiello,C., Maskeri,B., Mastrian,S.D.,

McCloskey,J.C., McDowell,J., Paguirigan,C., Pearson,R.,

Portnoy,M.E., Prasad,A., Schueler,M.G., Stantripop,S., Thomas,J.W.,

Thomas,P.J., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,

Wetherby,K.D., Wiggins,L., Young,A., Zhang,L.-H. and Green,E.D.

NISC Comparative Sequencing Initiative

Unpublished

2 (bases 1 to 182644)

Green,E.D.

Direct Submission

Submitted (02-NOV-2001) NIH Intramural Sequencing Center, 8717

Grovemont Circle, Gaithersburg, MD 20877, USA

3 (bases 1 to 182644)

Green,E.D.

Direct Submission

Submitted (18-JUL-2002) NIH Intramural Sequencing Center, 8717

Grovemont Circle, Gaithersburg, MD 20877, USA

4 (bases 1 to 182644)

Green,E.D.

Direct Submission

Submitted (28-JAN-2003) NIH Intramural Sequencing Center, 8717

Grovemont Circle, Gaithersburg, MD 20877, USA

On Jul 18, 2002 this sequence version replaced gi:18642737.

----- Genome Center

Center: NIH Intramural Sequencing Center

Center code: NISC

Web site: http://www.nisc.nih.gov

Contact: nisc.zoo@nhgri.nih.gov

----- Project Information

Center project name: csm

Center clone name: 367L14

This sequence was finished as follows unless otherwise noted:
all regions were double-stranded, sequenced with an
alternate chemistry, or covered by high quality data
(i.e., phred quality >= 30); an attempt was made to resolve
all sequencing problems, such as compressions and repeats;
all regions were covered by at least one plasmid subclone
or more than one M13 subclone; and the assembly was confirmed
by restriction digest.

CLONE LENGTH: This sequence represents the entire insert of

this clone unless otherwise noted. If there are overlapping clones, the overlaps are noted in the beginning and end of the Features section.

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FEATURES
source
  Location/Qualifiers
    1..182644
      /organism="Papio anubis"
      /mol_type="genomic DNA"
      /db_xref="taxon:9555"
      /clone="RP41-367L14"
      /clone_lib="RP41"
  misc_feature
    16990..17127
      /note="single clone coverage"
  misc_feature
    18401..18470
      /note="single clone coverage"
  misc_feature
    18709..18756
      /note="single clone coverage"
  misc_feature
    48224..48240
      /note="single clone coverage"
  misc_feature
    75317..75463
      /note="single clone coverage"
  misc_feature
    114474..114497
      /note="single clone coverage"
  misc_feature
    143993..144076
      /note="single clone coverage"
ORIGIN
Query Match      89.5%;   Score 17;   DB 9;   Length 182644;
Best Local Similarity 100.0%;   Pred. No. 24;
Matches 17;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Qy  2  ATTATTGATTCTGTAGG 18
    |||||
Db  14499 ATTATTGATTCTGTAGG 14483

RESULT 32
AC102150
LOCUS
DEFINITION
AC102150
VERSION
AC102150.9 GI:52839788
KEYWORDS
HTG; HTGS PHASE2; HTGS_FULLTOP; HTGS_ACTIVEFIN.
SOURCE
Mus musculus (house mouse)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 183774)
Birren,B., Nusbaum,C. and Lander,E.
Mus musculus chromosome 7, clone RP23-310N5
Unpublished
2 (bases 1 to 183774)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
Anderson,S., Barna,N., Bastien,V., Boguslavkiy,L., Boukhgalter,B.,
Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S.,
Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
Hagos,B., Heaford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R.,
Jones,C., Kamat,A., Karatas,A., Kells,C., LaRocque,K.,
Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Liu,G.,
MacLean,C., Macdonald,P., Major,J., Marquis,N., Matthews,C.,
McCarthy,M., McEwan,P., McKernan,K., McPheeters,R., Meldrim,J.,
Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C.,
Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D.,
Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Pollara,V.,
Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P.,
Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R.,
Seaman,S., Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
```

TITLE
JOURNAL
REFERENCE
AUTHORS

Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (23-NOV-2001) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 183774)
Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
Anderson,M., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V.,
Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J.,
Choepel,Y., Collymore,A., Cook,A., Cooke,P., Corum,B.,
DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L.,
Erickson,J., Faro,S., Ferreira,P., FitzGerald,M., Gage,D.,
Galagan,J., Gardyna,S., Graham,L., Horton,L., Hulme,W., Iliev,I.,
Hagopian,D., Hagos,B., Kamat,A., Karatas,A., Kells,C., Landers,T.,
Johnson,R., Jones,C., Liu,G., Liu,X., Lui,A., Mabbitt,R.,
Levine,R., Lindblad-Toh,K., Liu,G., Liu,X., Lui,A., Mabbitt,R.,
MacLean,C., Macdonald,P., Major,J., Manning,J., Matthews,C.,
McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,
Murphy,T., Naylor,J., Nguyen,C., Nguyen,T., Nicol,R., Norbu,C.,
O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K.,
Phunkhang,P., Pierre,N., Rachupka,A., Ramasamy,U., Raymond,C.,
Retta,R., Rise,C., Rogov,P., Roman,J., Schauer,S., Schupback,R.,
Seaman,S., Severy,P., Smith,C., Spencer,B., Stange-Thomann,N.,
Stojanovic,N., Stubbs,M., Talamas,J., Tesfaye,S., Theodore,J.,
Topham,K., Travers,M., Vassiliev,H., Venkataraman,V.S., Viel,R.,
Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L.,
Zimmer,A. and Zody,M.
Direct Submission

TITLE
JOURNAL
COMMENT

Submitted (29-SEP-2004) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Sep 29, 2004 this sequence version replaced gi:52782635.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@broad.mit.edu
----- Project Information
Center project name: L18115
Center clone name: 310_N_5

* NOTE: This is a 'working draft' sequence. It currently
* consists of 2 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
* 1 72244: contig of 72244 bp in length
* 72245 72344: gap of unknown length
* 72345 183774: contig of 111430 bp in length.

FEATURES
source

Location/Qualifiers
1..183774
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/chromosome="7"
/map="7"
/clone="RP23-310N5"
/clone_lib="RPCI-23 Female Mouse BAC"

ORIGIN

Query Match 89.5%; Score 17; DB 2; Length 183774;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTAGGT 19
 |||||
Db 50297 TTATTGATTCTGTAGGT 50313

from the RPCI-23 Mouse PAC Library
constructed by the group of Pieter de Jong.
For further details see <http://www.chori.org/bacpac/home.htm>
VECTOR: pBACe3.6.

FEATURES

source
Location/Qualifiers
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/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/chromosome="4"
/clone="RP23-456B2"
/clone_lib="RPCI-23"

ORIGIN

Query Match 89.5%; Score 17; DB 10; Length 196915;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCGTAG 17

Db 138493 AATTATTGATTCGTAG 138477

RESULT 35

AC119027
LOCUS AC119027 199373 bp DNA linear HTG 12-OCT-2002
DEFINITION Rattus norvegicus clone CH230-457H17, *** SEQUENCING IN PROGRESS
***, 3 unordered pieces.

ACCESSION AC119027 GI:23908210
VERSION HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED.
KEYWORDS Rattus norvegicus (Norway rat)
SOURCE Rattus norvegicus
ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

1 (bases 1 to 199373)

Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D.,
Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,
Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,
Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K.,
Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,
Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebregeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,
Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K.,
Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J.,
Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hogues,M.,
Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A.,
Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpathy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,
Lorensuhewa,L., Loulseged,H., Lozado,R.J., Lu,X., Ma,J.,
Maheshwari,M., Mahindartne,M., Mahmoud,M., Malloy,K., Mangum,A.,
Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,
Mawhiney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,
Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,
Morgan,M., Morris,K., Morris,S., Munidasa,M., Murphy,M., Nair,L.,
Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S.,
Nwaokelimeh,O., Okwuonu,G., Olarnpunsagoon,A., Pal,S., Parks,K.,
Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C.,
Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L.,
Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,
Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F.,

Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J.,
Sanders,W., Savery,G., Scherer,S., Scott,G., Shatsman,S., Shen,H.,
Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajs,D.,
Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
Steimle,M., Strong,R., Sutton,A., Svatek,A., Tabor,P., Taylor,C.,
Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K.,
Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
Williams,G., Willson,R., Wleczyk,R., Wooden,H., Worley,K.,
Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von
Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.

Direct Submission

Unpublished

2 (bases 1 to 199373)

Worley,K.C.

Direct Submission

Submitted (24-APR-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 199373)

Rat Genome Sequencing Consortium.

Direct Submission

Submitted (12-OCT-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

On Oct 12, 2002 this sequence version replaced gi:21747329.

The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GVXM

Center clone name: CH230-457H17

----- Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 167882 bases at least Q40

Consensus quality: 170782 bases at least Q30

Consensus quality: 172278 bases at least Q20

Estimated insert size: 178998; sum-of-contigs estimation

Quality coverage: 5x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length

(see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently

consists of 3 contigs. The true order of the pieces

is not known and their order in this sequence record is

arbitrary. Gaps between the contigs are represented as

runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

as soon as it is available and the accession number will

be preserved.

* 1 195718: contig of 195718 bp in length

* 195719 195818: gap of unknown length

* 195819 197296: contig of 1478 bp in length

* 197297 197396: gap of unknown length

* 197397 199373: contig of 1977 bp in length.

Location/Qualifiers

source

1..199373

/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-457H17"
1. 1418
/note="wgs_contig"
14276. .15866
/note="wgs_contig"
complement(187609. .188528)
/note="clone_boundary
clone_end:T7
site:MboI
end_sequence:RXBMC45TJ"
189753. .191324
/note="wgs_end_extension
clone_end:T7"
193193. .195718
/note="wgs_end_extension
clone_end:T7"

ORIGIN

Query Match 89.5%; Score 17; DB 2; Length 199373;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTAGGT 19
|||||
Db 75541 TTATTGATTCTGTAGGT 75557

RESULT 36
AC138676
LOCUS
DEFINITION Mus musculus chromosome 3 clone RP23-381I16 map 3, *** SEQUENCING
IN PROGRESS ***, 3 unordered pieces.
AC138676
AC138676.5 GI:53984567
HTG; HTGS PHASE1; HTGS_FULLTOP; HTGS_ACTIVEFIN.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 204308)
Birren,B.; Nusbaum,C. and Lander,E.
Mus musculus chromosome 3, clone RP23-381I16
Unpublished
2 (bases 1 to 204308)
Birren,B., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S.,
Barna,N., Bastien,V., Bloom,T., Boguslavkiy,L., Boukhgalter,B.,
Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collimore,A.,
Cook,A., Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S.,
Faro,S., Ferreira,P., FitzGerald,M., Gage,D., Galagan,J.,
Gardyna,S., Gord,S., Graham,L., Grand-Pierre,N., Hafez,N.,
Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R.,
Lindblad-Toh,K., Liu,G., MacLean,C., Macdonald,P., Major,J.,
Matthews,C., McCarthy,M., Meldrim,J., Meneus,L., Nicol,R., Norbu,C.,
Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C.,
Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J.,
Peterson,K., Phunkhang,P., Pierre,N., Raymond,C., Retta,R.,
Rise,C., Rogov,P., Roman,J., Roy,A., Schauer,S., Schupback,R.,
Seaman,S., Severy,P., Smith,C., Spencer,B., Stange-Thomann,N.,
Stojanovic,N., Talamas,J., Tesfaye,S., Theodore,J., Topham,K.,
Travers,M., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X.,
Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (15-JAN-2003) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 204308)
Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
Anderson,M., Anderson,S., Arachchi,H.M., Barna,N., Bastien,V.,
Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J.,
Choepel,Y., Collimore,A., Cook,A., Cooke,P., Corum,B.,

DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L.,
Erickson,J., Faro,S., Ferreira,P., FitzGerald,M., Gage,D.,
Galagan,J., Gardyna,S., Graham,L., Grand-Pierre,N., Hafez,N.,
Hagopian,D., Hagos,B., Hall,J., Horton,L., Hulme,W., Iliev,I.,
Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., Landers,T.,
Levine,R., Lindblad-Toh,K., Liu,G., Liu,X., Lui,A., Mabbitt,R.,
MacLean,C., Macdonald,P., Major,J., Manning,J., Matthews,C.,
McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,
Murphy,T., Naylor,J., Nguyen,C., Nguyen,T., Nicol,R., Norbu,C.,
O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K.,
Phunkhang,P., Pierre,N., Rachupka,A., Ramasamy,U., Raymond,C.,
Retta,R., Rise,C., Rogov,P., Roman,J., Schauer,S., Schupback,R.,
Seaman,S., Severy,P., Smith,C., Spencer,B., Stange-Thomann,N.,
Stojanovic,N., Stubbs,M., Talamas,J., Tesfaye,S., Theodore,J.,
Topham,K., Travers,M., Vassiliev,H., Venkataraman,V.S., Viel,R.,
Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L.,
Zimmer,A. and Zody,M.
Direct Submission
Submitted (08-OCT-2004) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Oct 8, 2004 this sequence version replaced gi:51699720.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@broad.mit.edu
----- Project Information
Center project name: L28926
Center clone name: 381_I_16

* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 945: contig of 945 bp in length
* 946 1045: gap of unknown length
* 1046 62113: contig of 61068 bp in length
* 62114 62213: gap of unknown length
* 62214 204308: contig of 142095 bp in length.
FEATURES
source
1. .204308
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/chromosome="3"
/map="3"
/clone="RP23-381I16"
/clone_lib="RPCI-23 Female Mouse BAC"

ORIGIN

Query Match 89.5%; Score 17; DB 2; Length 204308;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTATTGATTCTGTAGGT 19
|||||
Db 56464 TTATTGATTCTGTAGGT 56480

RESULT 37
AC148095/c
LOCUS
DEFINITION Mus musculus chromosome 15 clone RP23-36C9 map 15, WORKING DRAFT
AC148095 210358 bp DNA linear HTG 02-FEB-2004
SEQUENCE, 6 unordered pieces.
AC148095
AC148095.1 GI:41581467

KEYWORDS	HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS	1 (bases 1 to 210358)
TITLE	Birren,B., Nusbaum,C. and Lander,E.
JOURNAL	Mus musculus chromosome 15, clone RP23-36C9
REFERENCE	Unpublished
AUTHORS	2 (bases 1 to 210358)
	Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N., Anderson,M., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T., Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J., Choepel,Y., Collymore,A., Cook,A., Cooke,P., Corum,B., DeArellano,K., Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S., Ferreira,P., FitzGerald,M., Gage,D., Galagan,J., Gardyna,S., Graham,L., Grand-Pierre,N., Hafez,N., Hagopian,D., Hagos,B., Hall,J., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R., Lindblad-Toh,K., Liu,X., Lui,A., Mabbitt,R., MacLean,C., Macdonald,P., Major,J., Manning,J., Matthews,C., McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Rachupka,A., Ramasamy,U., Raymond,C., Retta,R., Rise,C., Rogov,P., Roman,J., Schauer,S., Schupback,R., Seaman,S., Severy,P., Smith,C., Spencer,B., Strange-Thomann,N., Stojanovic,N., Stubbs,M., Talamas,J., Testaye,S., Theodore,J., Topham,K., Travers,M., Vassiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
TITLE	Direct Submission
JOURNAL	Submitted (02-FEB-2004) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
COMMENT	All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html ----- Genome Center Center: Whitehead Institute/ MIT Center for Genome Research Center code: WIBR Web site: http://www-seq.wi.mit.edu Contact: sequence_submissions@genome.wi.mit.edu ----- Project Information Center project name: L30113 Center clone name: 36_C_9 ----- Summary Statistics Sequencing vector: Plasmid; n/a; 100% of reads Chemistry: Dye-terminator Big Dye; 100% of reads Assembly program: Phrap; version 0.960731 Consensus quality: 208049 bases at least Q40 Consensus quality: 209013 bases at least Q30 Consensus quality: 209426 bases at least Q20 Insert size: 222000; agarose-fp Insert size: 209858; sum-of-contigs Quality coverage: 9.1 in Q20 bases; agarose-fp Quality coverage: 9.7 in Q20 bases; sum-of-contigs ----- * NOTE: This is a 'working draft' sequence. It currently consists of 6 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved. * 1 684: contig of 684 bp in length * 685 784: gap of 100 bp * 785 1598: contig of 814 bp in length * 1599 1699: gap of 100 bp * 1699 18422: contig of 16724 bp in length * 18423 18522: gap of 100 bp * 18523 50410: contig of 31888 bp in length * 50411 50510: gap of 100 bp * 50511 100097: contig of 49587 bp in length
FEATURES	Source
	1..210358 /organism="Mus musculus" /mol_type="genomic DNA" /db_xref="taxon:10090" /chromosome="15" /map="15" /clone="RP23-36C9" /clone_lib="RPCI-23 Female Mouse BAC" 1..684 /note="assembly_fragment" clone_end:SP6 vector_side:left 785..1598 /note="assembly_fragment" 1699..18422 /note="assembly_fragment" 18523..50410 /note="assembly_fragment" 50511..100097 /note="assembly_fragment" 100198..210358 /note="assembly_fragment" clone_end:T7 vector_side:right"
misc_feature	
misc_feature	
misc_feature	
misc_feature	
misc_feature	
misc_feature	
ORIGIN	
	Query Match 89.5%; Score 17; DB 2; Length 210358; Best Local Similarity 100.0%; Pred.No. 24; Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	3 TTATTGATTCTGTAGGT 19
Db	7219 TTATTGATTCTGTAGGT 7203
RESULT 38	
AC134898/c	
LOCUS	AC134898 213348 bp DNA linear ROD 10-JUL-2004
DEFINITION	Mus musculus BAC clone RP23-478H2 from chromosome 14, complete sequence.
ACCESSION	AC134898
VERSION	AC134898.4 GI:50200145
KEYWORDS	HTG.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE	1 (bases 1 to 213348) Hodges,J., Cotton,M., Bielicki,L., Haglund,K., Meyer,R. and Haakenson,W.
AUTHORS	The sequence of Mus musculus BAC clone RP23-478H2
TITLE	Unpublished (2001)
JOURNAL	2 (bases 1 to 213348)
REFERENCE	McPherson,J.D. and Waterston,R.H.
AUTHORS	Direct Submission
JOURNAL	Submitted (02-OCT-2002) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE	3 (bases 1 to 213348)
AUTHORS	Wilson,R.K.
TITLE	Direct Submission
JOURNAL	Submitted (28-MAY-2004) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
REFERENCE	4 (bases 1 to 213348)
AUTHORS	Wilson,R.K.
TITLE	Direct Submission
JOURNAL	Submitted (10-JUL-2004) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
COMMENT	On Jul 10, 2004 this sequence version replaced gi:4777599. ----- Genome Center

Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu>
Contact: submissions@watson.wustl.edu
----- Summary Statistics
Center project name: M_BA0478H02

NOTICE:

This sequence was finished as follows unless otherwise noted:
all regions were double stranded, sequenced with an alternate
chemistry, or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren,
Department of Genetics, Washington University, St. Louis MO. For
additional information about the map position of this sequence, see
<http://genome.wustl.edu>

SOURCE INFORMATION:

The RPCI-23 BAC Library has been constructed by Kazutoyo Osegawa
and Minako Tatenno in the laboratory of Pieter de Jong
(<http://www.chori.org>) from female C57BL/6J mouse kidney and/or
brain genomic DNA. The clone and detailed information can be
obtained from Research Genetics, Inc. (<http://www.resgen.com>) or
Pieter de Jong and coworkers at <http://www.chori.org>

NEIGHBORING SEQUENCE INFORMATION:

This sequence is the entire insert of the clone.

FEATURES

source

1. 213348
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/chromosome="14"
/map="14"
/clone="RP23-478H2"
/clone_lib="RPCI-23"

repeat_region

825. 937
/rpt_family="Alu"

repeat_region

961. 1133
/rpt_family="B4"

repeat_region

1002. 1139
/rpt_family="Alu"

repeat_region

1362. 1499
/rpt_family="MaLR"

repeat_region

1568. 1669
/rpt_family="B2"

repeat_region

1640. 1701
/rpt_family="B2"

repeat_region

1744. 1882
/rpt_family="Alu"

repeat_region

2738. 2868
/rpt_family="Alu"

repeat_region

2875. 3015
/rpt_family="Alu"

repeat_region

3105. 3284
/rpt_family="B2"

repeat_region

3287. 3469
/rpt_family="B2"

repeat_region

4210. 4341
/rpt_family="MaLR"

repeat_region

4410. 4557
/rpt_family="Alu"

misc_feature

4622. 4626
/note="Sequence derived from PCR product of project DNA."

repeat_region

5208. 5479
/rpt_family="B4"

repeat_region
5836. 6047
/rpt_family="B2"
repeat_region
6609. 6762
/rpt_family="Alu"
repeat_region
7013. 7159
/rpt_family="B2"
repeat_region
7183. 7253
/rpt_family="Alu"
repeat_region
7295. 7464
/rpt_family="B4"
repeat_region
7473. 7661
/rpt_family="B2"
repeat_region
8424. 8500
/rpt_family="B4"
repeat_region
8547. 8673
/rpt_family="Alu"
repeat_region
8674. 8708
/rpt_family="B4"
repeat_region
8709. 8849
/rpt_family="B4"
repeat_region
8893. 9008
/rpt_family="MaLR"
repeat_region
9041. 9088
/rpt_family="MaLR"
repeat_region
9089. 9146
/rpt_family="tRNA-Ala-GCY "
repeat_region
9147. 9206
/rpt_family="MaLR"
repeat_region
9351. 9525
/rpt_family="B4"
repeat_region
9790. 9994
/rpt_family="B2"
repeat_region
9980. 10110
/rpt_family="ERVK"
repeat_region
10111. 10253
/rpt_family="Alu"
repeat_region
10254. 10265
/rpt_family="ERVK"
repeat_region
10290. 10388
/rpt_family="B2"
repeat_region
10609. 10705
/rpt_family="MaLR"
repeat_region
10703. 10762
/rpt_family="MaLR"
repeat_region
10776. 10925
/rpt_family="Alu"
repeat_region
10942. 11012
/rpt_family="ID"
repeat_region
11370. 11492
/rpt_family="ERVK"
unsure
11387. 11390
/note="Sequence derived from one plasmid subclone."
repeat_region
11624. 11732
/rpt_family="Alu"
repeat_region
11771. 12008
/rpt_family="MaLR"
unsure
11978. 12079
/note="Sequence derived from one plasmid subclone."
repeat_region
12233. 12320
/rpt_family="Alu"
repeat_region
12349. 12525
/rpt_family="B2"
trna
12355. 12427
/product="tRNA-Ser"
/note="Likely pseudogene (HMM SC=38.74 / Sec struct
SC=-16.29) "
repeat_region
12554. 12657
/rpt_family="B2"
repeat_region
12667. 12861
/rpt_family="B2"
repeat_region
13239. 13378
/rpt_family="Alu"
repeat_region
13598. 13658

repeat_region /rpt_family="L1" 13753. .13802
repeat_region /rpt_family="MaLR" 13784. .13953
repeat_region /rpt_family="B2" 13953. .14041
repeat_region /rpt_family="B2" 14034. .14376
repeat_region /rpt_family="MaLR" 14743. .14855
repeat_region /rpt_family="Alu" 14771. .14871
repeat_region /rpt_family="MaLR" 14856. .14883
repeat_region /rpt_family="B4" 14884. .14940
repeat_region /rpt_family="L1" 14956. .15019
repeat_region /rpt_family="B2" 14998. .15927
repeat_region /rpt_family="RMR1B"

Query Match 89.5%; Score 17; DB 10; Length 213348;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCGTAG 17
|||||
Db 130432 AATTATTGATTCGTAG 130416

RESULT 39
AC098411/c
LOCUS
DEFINITION AC098411 Rattus norvegicus clone CH230-2G8, WORKING DRAFT SEQUENCE, 4
AC098411
AC098411.5 GI:24941356
HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
Rattus norvegicus
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE 1 (bases 1 to 221618)
AUTHORS Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C., Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Ayele,M., Banks,T., Barbara,J., Benton,J., Bimage,K., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogue,M., Holloway,C., Hollins,B., Honsi,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L., Li,J., Li,Z., Lichtarge,O., Lieu,C., Liu,J., Liu,W., Loulseged,H., Lozado,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Mapua,P., Martin,R., Martindale,A., Martinez,E., Massey,E., Mawhiney,E., McLeod,M.P., Meador,M., Mei,G., Metzker,M., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Morgan,M., Morris,S., Moser,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokenkwo,S., Oguh,M., Okwuonu,G.,

Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y., Rives,M., Rojas,A., Rojubokan,I., Rolfe,M., Ruiz,S., Savery,G., Scherer,S., Scott,G., Shen,H., Shoostari,N., Sisson,I., Sodergren,E., Sonaike,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H., Tansey,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S., Usmani,K., Vasquez,L., Vera,V., Villalon,D., Vinson,R., Wang,Q., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S., Williams,G., Williamson,A., Wleczyk,R., Wooden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D., Weinstock,G. and Gibbs,R.

TITLE
JOURNAL
REFERENCE
2 (bases 1 to 221618)

Worley,K.C.

Direct Submission

Submitted (23-OCT-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 221618)

Worley,K.C.

Direct Submission

Submitted (13-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

On Nov 13, 2002 this sequence version replaced gi:23195684.

The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: TURA

Center clone name: CH230-2G8

----- Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 209367 bases at least Q40

Consensus quality: 210730 bases at least Q30

Consensus quality: 211730 bases at least Q20

Estimated insert size: 215293; sum-of-contigs estimation

Quality coverage: 8x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 172380: contig of 172380 bp in length
* 172381 172480: gap of unknown length
* 172481 219193: contig of 46713 bp in length
* 219194 219293: gap of unknown length
* 219294 220403: contig of 1110 bp in length
* 220404 220503: gap of unknown length
* 220504 221618: contig of 1115 bp in length.

Location/Qualifiers

FEATURES

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/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-2G8"

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Query Match      89.5%; Score 17; DB 2; Length 221618;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAG 17
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Db 170439 AATTATTGATTCTGTAG 170423

RESULT 40
AC103654
LOCUS
DEFINITION
Mus musculus chromosome 12 clone RP23-259L1 map 12, *** SEQUENCING
IN PROGRESS ***, 6 unordered pieces.
AC103654
AC103654.4 GI:45642876
HTG; HTGS PHASE1; HTGS FULLTOP; HTGS_ACTIVEFIN.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 235315)
Birren,B., Nusbaum,C. and Lander,E.
Mus musculus chromosome 12, clone RP23-259L1
Unpublished
2 (bases 1 to 235315)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
Anderson,S., Barna,N., Bastien,V., Boguslavkiy,L., Boukhgalter,B.,
Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S.,
Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
Hagos,B., Heaford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R.,
Jones,C., Kamat,A., Karatas,A., Kells,C., LaRocque,K.,
Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Liu,G.,
MacLean,C., Macdonald,P., Major,J., Marquis,N., Matthews,C.,
McCarthy,M., McEwan,P., McKernan,K., McPheeters,R., Meldrim,J.,
Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C.,
Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D.,
Oliver,J., Peterson,K., Phunkhang,P., Pierre,N., Pollara,V.,
Raymond,C., Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P.,
Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R.,
Seaman,S., Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (29-NOV-2001) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 235315)
Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
Anderson,M., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T.,
Boguslavkiy,L., Boukhgalter,B., Camarata,J., Chang,J., Choepel,Y.,
Collymore,A., Cook,A., Cooke,P., Corum,B., DeArellano,K.,
Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S.,
Ferreira,P., FitzGerald,M., Gage,D., Galagan,J., Gardyna,S.,
Graham,L., Grand-Pierre,N., Hafez,N., Hagopian,D., Hagos,B.,
Hall,J., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R.,
Lindblad-Toh,K., Liu,X., Lui,A., Mabbitt,R., MacLean,C.,
Macdonald,P., Major,J., Manning,J., Matthews,C., McCarthy,M.,
Meldrim,J., Meneus,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J.,
Nguyen,C., Nicol,R., Norbu,C., O'Connor,T., O'Donnell,P.,
O'Neil,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N.,
Rachupka,A., Ramasamy,U., Raymond,C., Retta,R., Rise,C., Rogov,P.,
Roman,J., Schauer,S., Schupback,R., Seaman,S., Severy,P., Smith,C.,
Spencer,B., Stange-Thomann,N., Stojanovic,N., Stubbs,M.,
Talamas,J., Tesfaye,S., Theodore,J., Topham,K., Travers,M.,
Vassiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X.,
Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (23-MAR-2004) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Mar 23, 2004 this sequence version replaced gi:24182063.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L19529
Center clone name: 259_L_1
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 6 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 50372: contig of 50372 bp in length
* 50373 50472: gap of 100 bp
* 50473 55828: contig of 5356 bp in length
* 55829 55928: gap of 100 bp
* 55929 114632: contig of 58704 bp in length
* 114633 114732: gap of 100 bp
* 114733 116754: contig of 2022 bp in length
* 116755 116854: gap of 100 bp
* 116855 163756: contig of 46902 bp in length
* 163757 163856: gap of 100 bp
* 163857 235315: contig of 71459 bp in length.
FEATURES
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/mol_type="genomic DNA"
/db_xref="taxon:10090"
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/map="12"
/clone="RP23-259L1"
/clone_lib="RPCI-23 Female Mouse BAC"

ORIGIN
Query Match      89.5%; Score 17; DB 2; Length 235315;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTAGGT 19
|||||
Db 65661 TTATTGATTCTGTAGGT 65677

RESULT 41
AC125675/c
LOCUS
DEFINITION
Rattus norvegicus clone CH230-237017, WORKING DRAFT SEQUENCE, 7
unordered pieces.
AC125675
AC125675.4 GI:25072983
HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
Rattus norvegicus (Norway rat)
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
```


REFERENCE AUTHORS	Rattus. 1 (bases 1 to 241151) Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J., Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D., Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H., Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F., Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M., Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E., Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J., Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L., Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D., Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K., Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K., Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G., Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P., Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M., Gebregeorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W., Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K., Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J., Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hogues,M., Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A., Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A., Karpachy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C., Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J., Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J., Lorensuhewa,L., Loulseged,H., Lozado,R.J., Lu,X., Ma,J., Maheshwari,M., Mahindartne,M., Mahmoud,M., Malloy,K., Mangum,A., Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E., Mawhiney,S., McLeod,M.P., McNeill,T.Z., Meenen,E., Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S., Morgan,M., Morris,K., Morris,S., Munidasa,M., Murphy,M., Nair,L., Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S., Nwackeleme,O., Okwuonu,G., Olarnpunsagoon,A., Pal,S., Parks,K., Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C., Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L., Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R., Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F., Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J., Sanders,W., Savery,G., Scherer,S., Scott,G., Shatsman,S., Shen,H., Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajs,D., Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J., Steimle,M., Strong,R., Sutton,A., Svatek,A., Tabor,P., Taylor,C., Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K., Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J., Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F., Williams,G., Willson,R., Wleczyk,R., Wooden,H., Worley,K., Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V., Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O., Weinstock,G. and Gibbs,R.A.
TITLE JOURNAL AUTHORS	Direct Submission Unpublished 2 (bases 1 to 241151) Worley,K.C.
TITLE JOURNAL	Direct Submission Submitted (29-JUN-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE AUTHORS	3 (bases 1 to 241151) Rat Genome Sequencing Consortium.
TITLE JOURNAL	Direct Submission Submitted (19-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
COMMENT	On Nov 19, 2002 this sequence version replaced gi:23676845. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.	
----- Genome Center Center: Baylor College of Medicine Center code: BCM Web site: http://www.hgsc.bcm.tmc.edu/ Contact: hgsc-help@bcm.tmc.edu ----- Project Information Center project name: GTPS Center clone name: CH230-237017 Center clone name: CH230-237017 ----- Summary Statistics Assembly program: Phrap; version 0.990329 Consensus quality: 229311 bases at least Q40 Consensus quality: 231059 bases at least Q30 Consensus quality: 232099 bases at least Q20 Estimated insert size: 228904; sum-of-contigs estimation Quality coverage: 8x in Q20 bases; sum-of-contigs estimation ----- * NOTE: Estimated insert size may differ from sequence length * (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html). * NOTE: This is a 'working draft' sequence. It currently * consists of 7 contigs. The true order of the pieces * is not known and their order in this sequence record is * arbitrary. Gaps between the contigs are represented as * runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence * as soon as it is available and the accession number will * be preserved. * 1 3625: contig of 3625 bp in length * 3626 3725: gap of unknown length * 3726 234785: contig of 231060 bp in length * 234786 234885: gap of unknown length * 234886 236114: contig of 1229 bp in length * 236115 236214: gap of unknown length * 236215 237456: contig of 1242 bp in length * 237457 237556: gap of unknown length * 237557 238736: contig of 1180 bp in length * 238737 238836: gap of unknown length * 238837 239890: contig of 1054 bp in length * 239891 239990: gap of unknown length * 239991 241151: contig of 1161 bp in length. * Location/Qualifiers 1..241151 /organism="Rattus norvegicus" /mol_type="genomic DNA" /db_xref="taxon:10116" /clone="CH230-237017" 1..1578 /note="wgs_end_extension clone_end:T7" 3726..4740 /note="wgs_end_extension clone_end:T7" complement(5255..6122) /note="clone_boundary clone_end:T7" site: end_sequence:BZ103403" 227618..228487 /note="clone_boundary clone_end:Sp6 site: end_sequence:BZ103407"	
ORIGIN	Query Match 89.5%; Score 17; DB 2; Length 241151; Best Local Similarity 100.0%; Pred. No. 23; Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0; QY 3 TTATTGATTCTGTAGGT 19

Db 42391 TTATTGATTCTGTAGGT 42375

|||||

RESULT 42
AC122943
LOCUS
DEFINITION AC122943 256265 bp DNA linear HTG 09-MAY-2003
Rattus norvegicus clone CH230-3N3, WORKING DRAFT SEQUENCE, 4
unordered pieces.

ACCESSION
VERSION AC122943.5 GI:30467080
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

1 (bases 1 to 256265)
Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D.,
Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
Biswal,O.K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,
Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,
Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
Delgado,O., Denson,S., Deramo,C., Ding,Y., Dinh,H., Divya,K.,
Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,
Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebregorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,
Gunaratne,P., Haaland,W., Hamil,C., Hamilton,C., Hamilton,K.,
Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J.,
Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hogues,M.,
Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A.,
Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpathy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,
Lorensuhewa,L., Loulseged,H., Lozado,R.J., Lu,X., Ma,J.,
Maheshwari,M., Mahindartne,M., Mahmoud,M., Malloy,K., Mangum,A.,
Mangum,B., Mapua,P., Martin,K., Martin,R., Martinez,E.,
Mawhiney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,
Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,
Morgan,M., Morris,K., Morris,S., Munidasa,M., Murphy,M., Nair,L.,
Nankervis,C., Neal,D., Newton,N., Nguyen,N., Norris,S.,
Nwaokemeleh,O., Okwuonu,G., Olarnpunsagoon,A., Pal,S., Parks,K.,
Pasternak,S., Paul,H., Perez,A., Perez,L., Pfannkoch,C.,
Plopper,F., Poindexter,A., Popovic,D., Primus,E., Pu,L.-L.,
Puazo,M., Quiroz,J., Rachlin,E., Reeves,K., Regier,M.A., Reigh,R.,
Reilly,B., Reilly,M., Ren,Y., Reuter,M., Richards,S., Riggs,F.,
Rives,C., Rodkey,T., Rojas,A., Rose,M., Rose,R., Ruiz,S.J.,
Sanders,W., Savery,G., Scherer,S., Scott,G., Shatsman,S., Shen,H.,
Shetty,J., Shvartsbeyn,A., Sisson,I., Sitter,C.D., Smajs,D.,
Sneed,A., Sodergren,E., Song,X.-Z., Sorelle,R., Sosa,J.,
Steimle,M., Strong,R., Sutton,A., Svatek,A., Tabor,P., Taylor,C.,
Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Uemani,K.,
Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
Williams,G., Willson,R., Wleczyk,R., Wooden,H., Worley,K.,
Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von
Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.

Direct Submission
Unpublished
2 (bases 1 to 256265)
Worley,K.C.
Direct Submission
Submitted (26-MAY-2002) Human Genome Sequencing Center, Department

TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL

of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 256265)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (09-MAY-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On May 9, 2003 this sequence version replaced gi:22772509.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GAOA
Center clone name: CH230-3N3
----- Summary Statistics
Assembly program: Atlas;
Consensus quality: 230047 bases at least Q40
Consensus quality: 232686 bases at least Q30
Consensus quality: 234367 bases at least Q20
Estimated insert size: 240988; sum-of-contigs estimation
Quality coverage: 8x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 196493: contig of 196493 bp in length
* 196494 196593: gap of unknown length
* 196594 253760: contig of 57167 bp in length
* 253761 253860: gap of unknown length
* 253861 255090: contig of 1230 bp in length
* 255091 255190: gap of unknown length
* 255191 256265: contig of 1075 bp in length.

FEATURES

source

1. 256265
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-3N3"

misc_feature

1. 1416
/note="wgs end_extension
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complement(2614. .3386)
/note="clone_boundary
clone_end:T7
site:EcoRI

misc_feature

misc_feature

end sequence: BH313649"
9305. .9839
/note="clone boundary
clone_end:Sp6
site:EcoRI
end_sequence: BH313651"

252308 256270: contig of 3963 bp in length
256271 256370: gap of unknown length
256371 259331: contig of 2961 bp in length
259332 259431: gap of unknown length
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AUTHORS Ivanova,N., Sorokin,A., Anderson,I., Galleron,N., Candelon,B., Kapatral,V., Bhattacharyya,A., Reznik,G., Mikhailova,N., Lapidus,A., Chu,L., Mazur,M., Goltzman,E., Larsen,N., D'Souza,M., Walunas,T., Grechkin,Y., Pusch,G., Haselkorn,R., Fonstein,M., Ehrlich,D.S.D., Overbeek,R. and Kyrpides,N.
TITLE Genome sequence of Bacillus cereus and comparative analysis with Bacillus anthracis
JOURNAL Nature 423 (6935), 87-91 (2003)
MEDLINE 22608415
PUBMED 12721630
REFERENCE 2 (bases 1 to 300854)
AUTHORS Candelon,B., Gailloux,K., Ehrlich,D.S. and Sorokin,A.
TITLE The number of ribosomal RNA operons in Bacillus cereus Unpublished
JOURNAL 3 (bases 1 to 300854)
REFERENCE 3 (bases 1 to 300854)
AUTHORS Ivanova,N., Sorokin,A., Anderson,I., Galleron,N., Candelon,B., Kapatral,V., Bhattacharyya,A., Reznik,G., Mikhailova,N., Lapidus,A., Chu,L., Mazur,M., Goltzman,E., Larsen,N., D'Souza,M., Walunas,T., Grechkin,Y., Pusch,G., Haselkorn,R., Fonstein,M., Ehrlich,D.S.D., Overbeek,R. and Kyrpides,N.
TITLE Direct Submission
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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; CURRENT FILING DATE: 2003-07-16
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; NAME/KEY: misc_feature
; LOCATION: (1)..(19)
; OTHER INFORMATION: SEQ ID NO. 5, antisense oligonucleotide
US-10-619-906-5

Query Match 100.0%; Score 19; DB 17; Length 19;
Best local Similarity 100.0%; Pred. No. 0.39;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | |
Db 1 AATTATTGATTCTGTAGGT 19

RESULT 2
US-09-920-455-179/c
; Sequence 179, Application US/09920455


```
; Patent No. US20020168647A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.540
; CURRENT APPLICATION NUMBER: US/09/920,455
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 275
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 179
; LENGTH: 458
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-920-455-179
```

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Query Match      100.0%; Score 19; DB 9; Length 458;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AATTATTGATTCTGTAGGT 19
|||||
Db      348 AATTATTGATTCTGTAGGT 330
```

```
RESULT 3
US-09-969-034-2908/c
; Sequence 2908, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Astle, Jon H.
; APPLICANT: Carroll, Eddie III
; APPLICANT: Catino, Theodore J.
; APPLICANT: Dwivedi, Poornima
; APPLICANT: Molino, Gary A.
; APPLICANT: Thiagalingam, Arunthathi
; APPLICANT: Lewis, Marcia E.
; TITLE OF INVENTION: Nucleic Acid Sequences Differentially
; FILE REFERENCE: 1657/1032
; CURRENT APPLICATION NUMBER: US/09/969,034
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/237,271
; PRIOR FILING DATE: 2000-02-10
; NUMBER OF SEQ ID NOS: 4494
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2908
; LENGTH: 589
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 456, 463, 481, 541, 545, 572, 576, 586, 589
; OTHER INFORMATION: n = A,T,C or G
US-09-969-034-2908
```

```
Query Match      100.0%; Score 19; DB 11; Length 589;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AATTATTGATTCTGTAGGT 19
|||||
Db      419 AATTATTGATTCTGTAGGT 401
```

```
RESULT 4
US-10-337-632-3/c
; Sequence 3, Application US/10337632
; Publication No. US20030157110A1
; GENERAL INFORMATION:
; APPLICANT: An, Frank
```

```
; APPLICANT: Chen, Hong
; TITLE OF INVENTION: METHODS FOR THE TREATMENT OF METABOLIC
; TITLE OF INVENTION: DISORDERS, INCLUDING OBESITY AND DIABETES
; FILE REFERENCE: MPI01-253PIRM
; CURRENT APPLICATION NUMBER: US/10/337,632
; CURRENT FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: 60/346,354
; PRIOR FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1413
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-337-632-3
```

```
Query Match      100.0%; Score 19; DB 16; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 AATTATTGATTCTGTAGGT 19
|||||
Db      361 AATTATTGATTCTGTAGGT 343
```

```
RESULT 5
US-10-295-027-323/c
; Sequence 323, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynnne, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 323
; LENGTH: 1413
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-323
```

Query Match 100.0%; Score 19; DB 17; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 6
US-10-295-027-1026/c
; Sequence 1026, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1026
; LENGTH: 1413
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-1026

Query Match 100.0%; Score 19; DB 17; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 7
US-10-295-027-1027/c
; Sequence 1027, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:

; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/356,714
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1027
; LENGTH: 1413
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-1027

Query Match 100.0%; Score 19; DB 17; Length 1413;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
|||||
Db 361 AATTATTGATTCTGTAGGT 343

RESULT 8
US-10-384-339C-101/c
; Sequence 101, Application US/10384339C
; Publication No. US20040175703A1
; GENERAL INFORMATION:
; APPLICANT: Kreutzer, Roland
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF A TARGET GEN
; FILE REFERENCE: 20200/2002
; CURRENT APPLICATION NUMBER: US/10/384,339C
; CURRENT FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: PCT/EP02/00152
; PRIOR FILING DATE: 2002-01-09
; PRIOR APPLICATION NUMBER: DE 10100586.5
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: DE 10155280.7
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: DE 10158411.3
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: DE 10160151.4
; PRIOR FILING DATE: 2001-12-07

```

; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 101
; LENGTH: 1653
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (626)..(925)
; OTHER INFORMATION: n=A, T, G, C or gap
; PUBLICATION INFORMATION:
; TITLE: MMP12
; PATENT DOCUMENT NUMBER: XM006272
US-10-384-339C-101

Query Match      100.0%; Score 19; DB 18; Length 1653;
Best Local Similarity 100.0%; Pred. No. 0.52;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      361 AATTATTGATTCTGTAGGT 343

RESULT 9
US-09-954-456-53/c
; Sequence 53, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-53

Query Match      100.0%; Score 19; DB 9; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 10
US-09-954-456-53/c
; Sequence 53, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-53

Query Match      100.0%; Score 19; DB 9; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 10
US-09-954-456-53/c
; Sequence 53, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-53
```

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US-09-954-456-1127/c
; Sequence 1127, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1127
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1127

Query Match      100.0%; Score 19; DB 9; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 11
US-09-954-456-1799/c
; Sequence 1799, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1799
```

; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1799
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1799

Query Match 100.0%; Score 19; DB 9; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 12
US-09-880-107-2179/c
; Sequence 2179, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2179
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 L23808
US-09-880-107-2179

Query Match 100.0%; Score 19; DB 9; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 13
US-09-920-455-218/c
; Sequence 218, Application US/09920455
; Patent No. US20020168647A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF HEAD AND NECK CANCER
; FILE REFERENCE: 210121.540
; CURRENT APPLICATION NUMBER: US/09/920,455
; CURRENT FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 275
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 218

; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-920-455-218

Query Match 100.0%; Score 19; DB 9; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 14
US-09-873-367C-439/c
; Sequence 439, Application US/09873367C
; Publication No. US20030165839A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: Soppet, Daniel
; APPLICANT: Endress, Gregory
; APPLICANT: Augustus, Meena
; APPLICANT: Ebner, Reinhard
; APPLICANT: Carter, Kenneth
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE REFERENCE: 689290-64
; CURRENT APPLICATION NUMBER: US/09/873,367C
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,891
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,842
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/244,867
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: U.S. 60/245,084
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 1067
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 439
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-873-367C-439

Query Match 100.0%; Score 19; DB 10; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 15
US-09-873-367C-1001/c
; Sequence 1001, Application US/09873367C
; Publication No. US20030165839A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: Soppet, Daniel
; APPLICANT: Endress, Gregory
; APPLICANT: Augustus, Meena
; APPLICANT: Ebner, Reinhard
; APPLICANT: Carter, Kenneth
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE REFERENCE: 689290-64
; CURRENT APPLICATION NUMBER: US/09/873,367C
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,891
; PRIOR FILING DATE: 2000-09-29


```
; PRIOR APPLICATION NUMBER: U.S. 60/236,842
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/244,867
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: U.S. 60/245,084
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 1067
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1001
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-873-367C-1001

Query Match      100.0%; Score 19; DB 10; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 16
US-10-171-311-134/c
; Sequence 134, Application US/10171311
; Publication No. US20030087270A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Chen, Yan
; APPLICANT: Zhao, Xumei
; APPLICANT: Monahan, John
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Glatt, Karen
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Hoersh, Sebastian
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF CERVICAL CANCER
; FILE REFERENCE: MRI-035
; CURRENT APPLICATION NUMBER: US/10/171,311
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 60/298,159
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,155
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/335,936
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 134
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-171-311-134

Query Match      100.0%; Score 19; DB 14; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 17
US-10-301-822-122/c
; Sequence 122, Application US/10301822
; Publication No. US20030148410A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.

; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen N.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/10/301,822
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (13)...(1425)
US-10-301-822-122

Query Match      100.0%; Score 19; DB 15; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 18
US-10-337-632-1/c
; Sequence 1, Application US/10337632
; Publication No. US20030157110A1
; GENERAL INFORMATION:
; APPLICANT: An, Frank
; APPLICANT: Chen, Hong
; TITLE OF INVENTION: METHODS FOR THE TREATMENT OF METABOLIC
; TITLE OF INVENTION: DISORDERS, INCLUDING OBESITY AND DIABETES
; FILE REFERENCE: MPI01-253P1RM
; CURRENT APPLICATION NUMBER: US/10/337,632
; CURRENT FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: 60/346,354
; PRIOR FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (13)...(1425)
US-10-337-632-1

Query Match      100.0%; Score 19; DB 16; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 19
US-10-131-985-40/c
```

; Sequence 40, Application US/10131985
; Publication No. US20030199440A1
; GENERAL INFORMATION:
; APPLICANT: Dack, Kevin N
; APPLICANT: Davies, Michael J
; APPLICANT: Fish, Paul V
; APPLICANT: Huggins, Jonathan P
; APPLICANT: McIntosh, Fraser S
; APPLICANT: Ocleston, Nicholas L
; TITLE OF INVENTION: Composition
; FILE REFERENCE: PCS 10391A
; CURRENT APPLICATION NUMBER: US/10/131,985
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: US/09/726,295
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: GB 9930768.8
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-985-40

Query Match 100.0%; Score 19; DB 16; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 20

US-10-172-118-769/c
; Sequence 769, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 769
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_002426
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-769

Query Match 100.0%; Score 19; DB 17; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 21

US-10-409-643-14/c
; Sequence 14, Application US/10409643
; Publication No. US20030235577A1
; GENERAL INFORMATION:
; APPLICANT: Shapiro, Steven
; APPLICANT: Hartzell, William
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR PREVENTING AND TREATING MICROBIAL INFECTIONS
; FILE REFERENCE: B00801.70281.US
; CURRENT APPLICATION NUMBER: US/10/409,643
; CURRENT FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: US 60/370,649
; PRIOR FILING DATE: 2002-04-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-409-643-14

Query Match 100.0%; Score 19; DB 17; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 22

US-10-240-425-1283/c
; Sequence 1283, Application US/10240425
; Publication No. US20040033502A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Amanda
; APPLICANT: Boland, Joseph F.
; APPLICANT: Lord, Reginald V.
; APPLICANT: Alvarez, Chris
; APPLICANT: Wetzel, Jon C.
; APPLICANT: Scherf, Uwe
; APPLICANT: Vockley, Joseph G.
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
; FILE REFERENCE: 44921-5026
; CURRENT APPLICATION NUMBER: US/10/240,425
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/US01/09847
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/193,446
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 1588
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1283
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20040033502A1 L23808
US-10-240-425-1283

Query Match 100.0%; Score 19; DB 17; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 23

US-10-342-887-769/c
; Sequence 769, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:

```

; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887
; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 769
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-769

Query Match      100.0%; Score 19; DB 17; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355
```

```

RESULT 24
US-10-188-832-124/c
; Sequence 124, Application US/10188832
; Publication No. US20040076955A1
; GENERAL INFORMATION:
; APPLICANT: Mack, David H.
; APPLICANT: Aziz, Natasha
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Bladder Cancer, Compositions
; TITLE OF INVENTION: and Methods of Screening for Modulators of Bladder
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: 018501-002330US
; CURRENT APPLICATION NUMBER: US/10/188,832
; CURRENT FILING DATE: 2002-11-22
; PRIOR APPLICATION NUMBER: US 60/302,814
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: US 60/310,099
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 60/343,705
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/372,246
; PRIOR FILING DATE: 2002-04-12
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 124
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-188-832-124

Query Match      100.0%; Score 19; DB 17; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355
```

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RESULT 25
US-10-619-906-1/c
; Sequence 1, Application US/10619906
; Publication No. US20040087533A1
; GENERAL INFORMATION:
; APPLICANT: Index Pharmaceuticals
; TITLE OF INVENTION: New Compound
; FILE REFERENCE: 50299
; CURRENT APPLICATION NUMBER: US/10/619,906
; CURRENT FILING DATE: 2003-07-16
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(1778)
; OTHER INFORMATION: SEQ ID NO.1; cDNA human MMP-12, Genebank acc. no. NM-002426
US-10-619-906-1
```

```

Query Match      100.0%; Score 19; DB 17; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355
```

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RESULT 26
US-10-734-564-10/c
; Sequence 10, Application US/10734564
; Publication No. US20040157278A1
; GENERAL INFORMATION:
; APPLICANT: Christopher C Burgess et al
; TITLE OF INVENTION: Detection Methods Using TIMP1
; FILE REFERENCE: 1657/2012
; CURRENT APPLICATION NUMBER: US/10/734,564
; CURRENT FILING DATE: 2003-12-12
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-734-564-10

Query Match      100.0%; Score 19; DB 18; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355
```

```

RESULT 27
US-10-751-736-12/c
; Sequence 12, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
```

;
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 12
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-751-736-12

Query Match 100.0%; Score 19; DB 18; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 28
US-10-901-417-40/c
; Sequence 40, Application US/10901417
; Publication No. US20050026836A1
; GENERAL INFORMATION:
; APPLICANT: Dack, Kevin N
; APPLICANT: Davies, Michael J
; APPLICANT: Fish, Paul V
; APPLICANT: Huggins, Jonathan P
; APPLICANT: McIntosh, Fraser S
; APPLICANT: Occleston, Nicholas L
; TITLE OF INVENTION: Composition
; FILE REFERENCE: PCS 10391A
; CURRENT APPLICATION NUMBER: US/10/901,417
; CURRENT FILING DATE: 2004-07-28
; PRIOR APPLICATION NUMBER: US/10/131,985
; PRIOR FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: US/09/726,295
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: GB 9930768.8
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-901-417-40

Query Match 100.0%; Score 19; DB 19; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 29
US-10-843-641A-439/c
; Sequence 439, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; TITLE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-189
; CURRENT APPLICATION NUMBER: US/10/843,641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2001-09-18

;
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 439
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-439

Query Match 100.0%; Score 19; DB 19; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
| | | | | | | | | | | | | | | | | | | | | |
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 30
US-10-843-641A-1001/c
; Sequence 1001, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; TITLE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-189
; CURRENT APPLICATION NUMBER: US/10/843,641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1001
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-1001


```

Query Match      100.0%; Score 19; DB 19; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 31
US-10-843-641A-3080/c
; Sequence 3080, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; TITLE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-189
; CURRENT APPLICATION NUMBER: US/10/843,641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3080
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-3080

Query Match      100.0%; Score 19; DB 19; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 32
US-10-843-641A-4154/c
; Sequence 4154, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; TITLE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-189
; CURRENT APPLICATION NUMBER: US/10/843,641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
```

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; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4154
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-4154

Query Match      100.0%; Score 19; DB 19; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AATTATTGATTCTGTAGGT 19
      |||||
Db      373 AATTATTGATTCTGTAGGT 355

RESULT 33
US-10-843-641A-4826/c
; Sequence 4826, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; TITLE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-189
; CURRENT APPLICATION NUMBER: US/10/843,641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4826
; LENGTH: 1778
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-843-641A-4826

Query Match 100.0%; Score 19; DB 19; Length 1778;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 373 AATTATTGATTCTGTAGGT 355

RESULT 34

US-10-723-860-6186/c
; Sequence 6186, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6186
; LENGTH: 1873
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-860-6186

Query Match 100.0%; Score 19; DB 18; Length 1873;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 421 AATTATTGATTCTGTAGGT 403

RESULT 35

US-09-925-301-375/c
; Sequence 375, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 375
; LENGTH: 1874
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-301-375

Query Match 100.0%; Score 19; DB 9; Length 1874;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 423 AATTATTGATTCTGTAGGT 405

RESULT 36

US-09-971-392-36/c
; Sequence 36, Application US/09971392
; Publication No. US20030134283A1
; GENERAL INFORMATION:
; APPLICANT: Peterson, David P.
; APPLICANT: Pearson, Cecelia I.
; APPLICANT: Cocks, Benjamin G.
; TITLE OF INVENTION: GENES REGULATED IN DENDRITIC CELL DIFFERENTIATION
; FILE REFERENCE: PA-0029 US
; CURRENT APPLICATION NUMBER: US/09/971,392
; CURRENT FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: 60/237,652
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 260
; SOFTWARE: PERL Program
; SEQ ID NO 36
; LENGTH: 1988
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Template ID: 200569.1
; NAME/KEY: unsure
; LOCATION: 1886
; OTHER INFORMATION: a, t, c, g, or other
US-09-971-392-36

Query Match 100.0%; Score 19; DB 10; Length 1988;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 396 AATTATTGATTCTGTAGGT 378

RESULT 37

US-10-335-053-279/c
; Sequence 279, Application US/10335053
; Publication No. US20040241653A1
; GENERAL INFORMATION:
; APPLICANT: Quark Biotech, Inc.
; TITLE OF INVENTION: Methods for identifying marker genes for cancer
; FILE REFERENCE: 68733-A; 070/US1
; CURRENT APPLICATION NUMBER: US/10/335,053
; CURRENT FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: 60/345,317
; PRIOR FILING DATE: 2001-12-31
; NUMBER OF SEQ ID NOS: 319
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 279
; LENGTH: 2870
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-335-053-279

Query Match 100.0%; Score 19; DB 18; Length 2870;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AATTATTGATTCTGTAGGT 19
|||||
Db 1465 AATTATTGATTCTGTAGGT 1447

RESULT 38

US-10-349-143-2352/c
; Sequence 2352, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel

; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 2352
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 99-10570-107 : polymorphic base G or A
US-10-349-143-2352

Query Match 89.5%; Score 17; DB 17; Length 47;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTATTGATTCTGTAGGT 19
|||||
Db 21 TTATTGATTCTGTAGGT 5

RESULT 39

US-10-032-585-3874
; Sequence 3874, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jiang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032,585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3874
; LENGTH: 65
; TYPE: DNA
; ORGANISM: Candida albicans
US-10-032-585-3874

Query Match 84.2%; Score 16; DB 16; Length 65;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
|||||
Db 39 TATTGATTCTGTAGGT 54

RESULT 40

US-10-437-963-37801
; Sequence 37801, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 37801
; LENGTH: 1116
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_41497C.1
US-10-437-963-37801

Query Match 84.2%; Score 16; DB 18; Length 1116;
Best Local Similarity 100.0%; Pred. No. 25;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
|||||
Db 964 TATTGATTCTGTAGGT 979

RESULT 41

US-10-032-585-6874/c
; Sequence 6874, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jiang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032,585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6874
; LENGTH: 1554
; TYPE: DNA
; ORGANISM: Candida albicans
US-10-032-585-6874

Query Match 84.2%; Score 16; DB 16; Length 1554;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TATTGATTCTGTAGGT 19
|||||
Db 27 TATTGATTCTGTAGGT 12

RESULT 42

US-10-220-510-11
; Sequence 11, Application US/10220510
; Publication No. US20030190637A1
; GENERAL INFORMATION:
; APPLICANT: Hovnanian, Alain
; APPLICANT: Chavanas, Stephane
; APPLICANT: Cookson, William
; APPLICANT: Moffat, Miriam
; APPLICANT: Walley, Andrew
; TITLE OF INVENTION: SUSCEPTIBILITY GENE FOR NETHERTON'S DISEASE
; FILE REFERENCE: I00317.70008.US
; CURRENT APPLICATION NUMBER: US/10/220,510
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: GB 0005098.9
; PRIOR FILING DATE: 2000-03-02

;; PRIOR APPLICATION NUMBER: GB 0005229.0
;; PRIOR FILING DATE: 2000-03-03
;; NUMBER OF SEQ ID NOS: 14
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 11
;; LENGTH: 38653
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1846)..(1846)
;; OTHER INFORMATION: n = a, c, g or t/u
US-10-220-510-11

Query Match 84.2%; Score 16; DB 16; Length 38653;

Best Local Similarity 100.0%; Pred. No. 32; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 0;

QY 4 TATTGATTCTGTAGGT 19
Db 31420 TATTGATTCTGTAGGT 31435

RESULT 43

US-10-719-900-37891/c
;; Sequence 37891, Application US/10719900
;; Publication No. US20050026164A1
;; GENERAL INFORMATION:
;; APPLICANT: Xue Mei Zhou
;; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
;; FILE REFERENCE: 3528.1
;; CURRENT APPLICATION NUMBER: US/10/719,900
;; CURRENT FILING DATE: 2003-11-20
;; PRIOR APPLICATION NUMBER: 60/427,808
;; PRIOR FILING DATE: 2002 11 20
;; NUMBER OF SEQ ID NOS: 982914
;; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
;; SEQ ID NO 37891
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: Mus musculus
US-10-719-900-37891

Query Match 78.9%; Score 15; DB 19; Length 25;

Best Local Similarity 100.0%; Pred. No. 71; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0;

QY 3 TTATTGATTCTGTAG 17
Db 21 TTATTGATTCTGTAG 7

RESULT 44

US-10-719-900-701443
;; Sequence 701443, Application US/10719900
;; Publication No. US20050026164A1
;; GENERAL INFORMATION:
;; APPLICANT: Xue Mei Zhou
;; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
;; FILE REFERENCE: 3528.1
;; CURRENT APPLICATION NUMBER: US/10/719,900
;; CURRENT FILING DATE: 2003-11-20
;; PRIOR APPLICATION NUMBER: 60/427,808
;; PRIOR FILING DATE: 2002 11 20
;; NUMBER OF SEQ ID NOS: 982914
;; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
;; SEQ ID NO 701443
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: Mus musculus
US-10-719-900-701443

Query Match 78.9%; Score 15; DB 19; Length 25;

Best Local Similarity 100.0%; Pred. No. 71; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 0;

QY 2 ATTATTGATTCTGTA 16
Db 4 ATTATTGATTCTGTA 18

RESULT 45

US-10-029-386-23884
;; Sequence 23884, Application US/10029386
;; Publication No. US20030194704A1
;; GENERAL INFORMATION:
;; APPLICANT: Penn, Sharron G.
;; APPLICANT: Rank, David R.
;; APPLICANT: Hanzel, David K.
;; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
;; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
;; FILE REFERENCE: AEOMICA-X-2
;; CURRENT APPLICATION NUMBER: US/10/029,386
;; CURRENT FILING DATE: 2001-12-20
;; NUMBER OF SEQ ID NOS: 34288
;; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 23884
;; LENGTH: 274
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AC004237.1
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.3
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.7
;; OTHER INFORMATION: SWISSPROT HIT: Q9Y496, EVALUE 6.00e-49
;; OTHER INFORMATION: NT HIT: gi14781205, EVALUE 0.00e+00
;; OTHER INFORMATION: EST_HUMAN HIT: BI561517.1, EVALUE 0.00e+00
US-10-029-386-23884

Query Match

Best Local Similarity 78.9%; Score 15; DB 16; Length 274;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 ATTATTGATTCTGTA 16
Db 244 ATTATTGATTCTGTA 258

Search completed: April 26, 2005, 17:05:13

Job time : 503 secs

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